DRINKING WATER BOARD PACKET

NOVEMBER 16, 2007

SALT LAKE CITY, UTAH

AGENDA

FOR THE

DRINKING WATER BOARD AND WATER QUALITY BOARD

JOINT BOARD MEETING

ON

NOVEMBER 16, 2007



State of Utah

Department of Environmental Quality

Richard W. Sprott Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director

Drinking Water Board

Anne Erickson, Chair
Myron Bateman, Vice-Chair
Ken Bassett
Daniel Fleming
Jay Franson
Helen Graber, Ph.D.
Paul Hansen, P.E.
Petra Rust
Richard Sprott
David Stevens, Ph.D.
Ron Thompson
Kenneth H. Bousfield, P.E.
Executive Secretary

 $\begin{array}{c} {\rm JON~M.~HUNTSMAN,\,JR.} \\ {\it Governor} \end{array}$

GARY HERBERT Lieutenant Governor

DRINKING WATER BOARD and WATER QUALITY BOARD JOINT WORK MEETING

November 16, 2007

Place: Department of Environmental Quality 168 North 1950 West, Room 101 Salt Lake City, Utah 84116 Phone: (801) 536-4200

9:00 – 9:10	1.	Welcome and Introductions - Joe Piccolo, Water Quality Board Chairman
9:10 - 9:30	2.	Division Reports - Walt Baker and Ken Bousfield
9:30 - 10:00	3.	SRF Funding Issues, Perspective of DDW and DWQ - Ken Wilde and Ed Macauley
10:00 – 10:30	4.	Working with Local Land Use Authorities to Improve Water Protection - Kate Johnson, Bill Damery and Carl Adams
10:30 – 10:45	5.	Break
10:45 – 11:15	6.	Defining Roles and Enhancing Collaboration Between Agencies on Classification, Assessment and Permitting Activities for Class I Waters - Ying Ying Macauley
11:15 – 11:40	7.	Kennecott's South End Ground Water Permits and Remedial Activities - Dan Hall

Noon - 1:00 8. Break for Lunch

1:00 9. Separate for the two Board Meetings:
Drinking Water Board - Room 201
Water Quality Board - Room 101

In compliance with the American Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Brooke Baker, Office of Human Resources, at (801) 536-4412, TDD (801) 536-4413, at least five working days prior to the scheduled meeting.

AGENDA

FOR THE

DRINKING WATER BOARD MEETING

ON

NOVEMBER 16, 2007



State of Utah

Department of Environmental Quality

Richard W. Sprott Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director

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Executive Secretary

JON M. HUNTSMAN, JR. Governor

GARY HERBERT
Lieutenant Governor

DRINKING WATER BOARD MEETING

NOVEMBER 16, 2007

1:00 p.m.

Place: DEQ's Offices 168 North 1950 West, Room 201 Salt Lake City, Utah 84116

Ken Bousfield's Cell Phone #: (801) 674-2557

- 1. Call to Order Chairman Erickson
- 2. Roll Call Ken Bousfield
- 3. Introductions Chairman Erickson
- 4. Approval of Minutes October 12, 2007
- 5. SRF/Conservation Committee Report Vice Chairman Myron Bateman
 - 1) Status Report Ken Wilde
 - 2) Federal SRF Applications
 - a) Erda Acres Water Company Karin Tatum
 - b) Woods Cross City Michael Grange
- 6. Access to Source Protection Zones Kate Johnson
- 7. Approval of the 2008 Meeting Schedules Ken Bousfield
 - a) Board Meeting Schedule for 2008
 - b) SRF/Conservation Committee Meeting Schedule for 2008
- 8. Chairman's Report Chairman Erickson

- 9. Directors Report
 - a) Rural Water Association of Utah's 2008 Annual Conference
 - b) Utah Water Users' 2008 Annual Conference
- 10. News Articles
- 11. Letters
- 12. Next Board Meeting:

Date: January 9, 2008

Tour: Point of the Mountain Water Treatment Plant (WTP)

Time of Tour: 9:00 a.m.

Meet for the Tour and the Board meeting at:

168 North 1950 West, Room 101 Salt Lake City, Utah 84226

Lunch: 1:00 p.m.

Lunch will be provided.

Board Meeting Time: 1:00 p.m.

- 13. Other
- 14. Adjourn

In compliance with the American Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Brooke Baker, Office of Human Resources at: (801) 536-4412, TDD (801) 536-4424, at least five working days prior to the scheduled meeting.

AGENDA ITEM 4

APPROVAL OF THE

OCTOBER 12, 2007 MINUTES



State of Utah

Department of Environmental Quality

Richard W. Sprott Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director

Drinking Water Board

Anne Erickson, Ed.D., Chair
Myron Bateman, Vice-Chair
Ken Bassett
Daniel Fleming
Jay Franson, P.E.
Helen Graber, Ph.D.
Paul Hansen, P.E.
Petra Rust
Richard W. Sprott
David K. Stevens, Ph.D.
Ron Thompson
Kenneth H. Bousfield, P.E.
Executive Secretary

JON M. HUNTSMAN, JR.

Governor

GARY HERBERT Lieutenant Governor

MINUTES OF THE DRINKING WATER BOARD MEETING HELD ON OCTOBER 12, 2007 IN SALT LAKE CITY, UTAH

Board Members Present

Anne Erickson, Chair Myron Bateman, Vice Chair Daniel Fleming Jay Franson, P.E. Paul Hansen, P.E. Petra Rust Richard Sprott Ron Thompson

Board Members Excused

Helen Graber, Ph.D. David Stevens, Ph.D. Ron Thompson

Guests

Paul Fulgham, Rural Water Association
Dale Pierson, Rural Water Association
Laura Lockhart, Attorney Generals Office
Scott Anderson, Woods Cross City
Bill Allen, Pinon Forest SSD
Kathy Allen, Pinon Forest SSD
Barbara Quintana, Pinon Forest SSD
Fred Mauerman, Pinon Forest SSD
Doug Nielsen, Sunrise Engineering
Claudia Wheeler, Metropolitan Water
District of Salt Lake & Sandy

Staff

Ken Bousfield Ken Wilde Kate Johnson Rich Peterson Karin Tatum Pete Keers Linda Matulich

ITEM 1 – CALL TO ORDER

The Drinking Water Board convened in Salt Lake City, Utah with Chairman Erickson presiding. The meeting was called to order at 1:00 p.m.

ITEM 2 – ROLL CALL

Chairman Erickson asked Ken Bousfield to call roll of the Board members. The roll call showed there were 8 members present.

ITEM 3 – INTRODUCTIONS

Chairman Erickson welcomed everyone and asked the guests to introduce themselves.

ITEM 4 – APPROVAL OF MINUTES

Chairman Erickson stated a motion was in order to approve the minutes of the October 12, 2007 minutes.

Chairman Erickson asked to have Dianne Nielson's last name corrected in the October 12, 2007 minutes.

Petra Rust asked to have her name added to the minutes as being present at the last Board meeting.

Paul Hansen moved to approve the September 14, 2007 minutes with two minor changes: Correct the spelling of Dianne Nielson's last name, and add Petra Rust's name to the list as being present at the last Board meeting.

Jay Franson seconded.

CARRIED (Unanimous)

ITEM 5 – SRF/CONSERVATION COMMITTEE REPORT

1) Status Report - Ken Wilde

Ken Wilde reported the Board has over \$1,000,000, shown in brackets, gives a negative balance on committed funds versus what is in the State Loan Fund. There is almost \$19,000 in the Hardship Grant Fund; there is \$2.6 million in the Federal Loan Fund. We will be receiving a little over \$300,000 a month from tax revenue. We will get the bulk of the loan payments in January.

Ken Wilde reported we have \$195,000 obligated from the Federal Loan program in the first round of funds. There is a minus \$500,000 in repayments from the second round of funds. We have almost \$1.9 million in the Hardship Grant Funds. We have spent most of the \$2.6 million from collections we received that we had made in the Hardship Fund. There is \$1.9 million available in the Grant funds to use. We expect to collect another \$11 million over the next 12 months.

We helped Bear River, last month, with a state loan on their project.

We have been talking with St. George on their project again. We will finalize their project request over the next 3 or 4 months.

Some of the other projects will close soon.

2) Project Priority List – Karin Tatum

Karin Tatum reported 3 projects are being added to the Project Priority List; Erda Acres Water Company, Whispering Pines and Woods Cross.

Staff plans on presenting Woods Cross and Erda Acres projects to the Board at the November Board meeting. Whispering Pines project was presented at the last Board meeting.

Petra Rust moved the Board approve the updated Project Priority List.

Ken Bassett seconded.

CARRIED (Unanimous)

- 3) SRF Applications
 - a) Pinon Forest Special Service District Planning Karin Tatum

Karin Tatum reported that the Pinon Forest Special Service District (SSD) received a \$14,000 grant from the CIB Board last week. Pinon Forest SSD is requesting a \$15,000 planning loan from the Drinking Water Board at 0% for 5 years to complete their study.

Fred Mauerman and Kathy Allen, representing Pinon Forest Special Service District, addressed the Board.

Discussion followed.

Jay Franson moved the Board authorize a \$15,000 planning loan at 0% for 5 years to Pinon Forest Special Service District.

Danny Fleming seconded.

CARRIED (Unanimous)

4) Proposed Agreement between the Drinking Water Board and The Rural Water Association of Utah – Ken Wilde

Ken Wilde mentioned the Division and Board have been discussing eliminating systems that can't comply with our rules or have the will to comply with our rules, and eliminate the creation of such systems for a number of years now. The Rural Water Association of Utah (RWAU) made an application with the Drinking Water Board to help fund an employee to spearhead this project. Information is in the packet. There was a lengthy discussion at the Board work meeting this morning.

Ken mentioned last winter the Legislature approved planning and education for other types of projects. The other projects will be handled the same way construction projects are done. The project between the RWAU and the Board will be handled the same way. The SRF/Conservation Committee is proposing on completing a contract between the Drinking Water Board and the RWAU. The Division of Drinking Water and Drinking Water Board will provide input on the contract. Ken reviewed the process on how the agreement will work.

Dale Pierson, representing the RWAU, addressed the Board. Dale highlighted what the RWAU will be working on with the Division of Drinking Water.

Paul Fulgham addressed the Board.

Discussion followed.

Danny Fleming mentioned he is on the Rural Water Association's Board and declared a Conflict of Interest. He may abstain from voting.

Richard Sprott moved the Board approve the RWAU's proposal and direct Division staff to proceed with the preparation of a contract with RWAU. Initially, the cost of this contract will be paid from the Hardship Grant Funds. The contract will run for one year and be renewable, if mutually acceptable. Give the Executive Secretary the authority to pay for all or part of the cost of the contract with another source of funding, if the Executive Secretary is able to find another source of funding.

Paul Hansen seconded.

CARRIED

Seven voted yes. Danny Fleming abstained.

Discussion on motion.

ITEM 6 – OPERATOR CERTIFICATION COMMISSION RENEWALS

Ken Bousfield mentioned Mark Clark and Craig Fahrni's terms would expire at the end of 2007. Staff is recommending their terms to be extended for another term of 3 years.

Paul Hansen moved the Board authorize the reappointment of Mark Clark and Craig Fahrni to another term of office on the Operator Certification Commission.

Petra Rust seconded.

CARRIED (Unanimous)

ITEM 7 – CROSS CONNECTION COMMISSION RENEWALS

Ken Bousfield mentioned Tim Collings, Jeff Tingey, Jay Franson, and Frank Mills' terms will expire at the end of 2007. Staff is recommending their terms be extended for another term of 2 years.

Petra Rust moved the Board authorize the reappointment of Tim Collings, Jeff Tingey, Jay Franson, and Frank Mills to another tem of office on the Cross Connection Control Commission.

Danny Fleming seconded.

CARRIED (Unanimous)

The Board asked staff to talk to the members of both Commissions on recruiting new people to fill terms of the existing Commission members starting with the next renewal period.

Discussion followed.

ITEM 8 – 2008 BOARD MEETING SCHEDULE DISCUSSION

Chairman Erickson mentioned a Proposed List of the 2008 Board Meeting Schedule is in the packet for review.

Chairman Erickson asked for any comments from the Board. No comments were presented.

Chairman Erickson stated a motion would be in order to approve the Proposed 2008 Drinking Water Board Meeting Schedule.

Jay Franson moved the Board approve the 2008 Drinking Water Board Meeting Schedule.

Paul Hansen seconded.

CARRIED (Unanimous)

Rick Sprott left the Board meeting.

ITEM 9 – DEQ FEE DOCUMENT HEARING

Ken Bousfield reported the Department of Environmental Quality submits a fee schedule every year and is approved by the Legislature. The Division of Drinking Water collects fees from the Operator Certification Program, the Cross Connection Control Program, Well Grout Witness Fees, and miscellaneous fees for: copies of files, phone calls, copies of rules, etc. The Division is not proposing any fee changes this year. The Division needs to notify the Board each year on the new Fee Schedule for the coming year.

Discussion followed.

Daniel Fleming moved the Board approve the Public Notice Fee Schedule as it has been in the past.

Petra Rust seconded.

CARRIED (Unanimous)

<u>ITEM 10 – OPEN AND PUBLIC MEETING ACT</u>

Laura Lockhart reviewed the changes in the Open and Public Meetings Act with Statewide Impact for the 2007 General Session. The information is in the packet, and is informational only.

Rick Sprott rejoined the Board meeting.

Discussion followed.

ITEM 11 – FIVE YEAR RENEWAL ADOPTION FOR: RULE R305-2 – ELECTRONIC MEETING RULE AND RULE R305-3 – EMERGENCY MEETING RULE

Laura Lockhart reviewed the Electronic Meeting Rule and the Emergency Meeting Rule. The Electronic Meeting and Emergency Meeting Rules are both up for a 5-year renewal this year.

Electronic meetings are conducted by telephone. An Electronic Meetings Rule has to be in place to hold an electronic meeting.

Laura Lockhart reviewed the changes being made to the Rule. Laura Lockhart recommended the Board approve reauthorization of the Electronic Meeting Rule.

Discussion followed.

Myron Bateman moved the Board approve the 5-year renewal adoption of the R305-2 Electronic Meetings Rule.

Ken Bassett seconded.

CARRIED (Unanimous)

Laura Lockhart reviewed the Emergency Meeting Rule. Laura Lockhart mentioned there weren't any changes in the Emergency Meeting Rule. The Emergency Meeting Rule did raise some concerns. Laura Lockhart recommended the Board let the Emergency Meeting rule sunset, which will happen on November 8, 2007.

Discussion followed.

Jay Franson moved the Board let the Rule R305-3 Emergency Meeting Rule sunset.

Petra Rust seconded.

CARRIED (Unanimous)

ITEM 12 – CHAIRMANS REPORT

Chairman Erickson mentioned the SRF Conservation Committee has a vacancy. Petra Rust volunteered to be on the SRF/Conservation Committee. Petra will be available for the next Committee meeting.

Chairman Erickson mentioned Ken Bousfield wrote an excellent article for the OpenLine that was just published. The article outlines the Goals Ken has set for the Division for the coming year.

ITEM 13 – DIRECTORS REPORT

Ken Bousfield introduced Pete Keers. Pete is a new employee in the Division's Field Services Section.

Pete Keers gave some background on his work experience. Pete mentioned what his job duties will be for the Division of Drinking Water.

a) MOU with the Division of Public Utilities

Ken Bousfield reported that the Division of Drinking Water is working with the Division of Public Utilities on a "Memorandum of Understanding". Ken passed out a draft copy of the "Memorandum of Understanding" and reviewed it with the Board.

b) Meeting with AGIC

Ken Bousfield reported that Kate Johnson and Mark Jensen attended a meeting with the Automated Geographic Reference Center (AGRC) last week. The AGRC keeps track of the maps for State Government. The Division of Drinking Water does not have any drinking water sources as a part of this coverage, but there is an electronic copy. The delineation of the source protection zones exists electronically. The meeting was to see if the Division of Drinking Water could get a secure website for planners.

Kate Johnson updated the Board on what was discussed at the meeting with AGRC.

Discussion followed.

c) Recent Annual Meetings and Conferences

Ken Bousfield reported the Association of State Drinking Water Administrators (ASDWA) held their annual meeting last week. Ken gave an update on the meetings and discussions at the meetings.

Ken mentioned EPA is talking about redoing its definition for significant non-compliers. EPA will hold a webcast for states during November. There will be a comment period held sometime after the webcast.

Ken reviewed Utah's 25 worst drinking water systems that are on the list.

Discussion followed.

Ken mentioned that EPA is proposing revising the Total Coliform Rule. Eva Nieminski and Patti Fauver the Division and the State of Utah on the Total Coliform Rule.

Ken mentioned the Western Governors Association just sponsored a Water Policy and Planning in the West" conference. Ken updated the Board on what was discussed at the conference.

ITEM 14 – LETTERS

The letters are in the packet.

ITEM 15 – NEWS ARTICLES

The news articles are in the packet.

ITEM 16 – NEXT BOARD MEETING

The next Board meeting will be on November 16, 2007 at 168 North 1950 West, Room 201, Salt Lake City, Utah. There will be a joint work meeting in the morning and a catered lunch with the Water Quality Board in room 101. The Drinking Water Board will then convene in room 201 at 1:00 p.m. for their Board meeting.

ITEM 17 – OTHER

Chairman Erickson commended Ken for the work on the "Memorandum of Understanding".

Jay Franson thanked staff for the work they do for the Board and the state.

ITEM 18 – ADJOURN

Chairman Erickson stated a motion to adjourn the Board meeting was in order.

Paul Hansen moved to adjourn the Drinking Water Board meeting at 2:25 p.m.

Jay Franson seconded.

CARRIED (Unanimous)

Linda Matulich
Recording Secretary

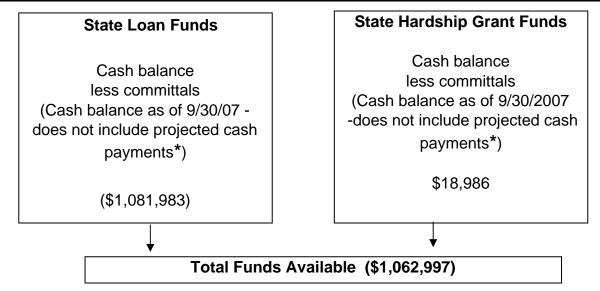
AGENDA ITEM 5

SRF/CONSERVATION COMMITTEE REPORT

5. 1) STATUS REPORT – Ken Wilde

DIVISION OF DRINKING WATER STATE LOAN FUNDS CASH BALANCE AS OF SEPTEMBER 30, 2007

All interest payment and investment earning are deposited to the Hardship Grant Fund



The sales tax maximum is \$3,587,500

- 1- principal payments \$2,768,943 plus interest \$688,502.
- 2- investment earings \$600,000.
- 3- FY2008 sales tax \$3,587,500.

Total Funds Available Including Projected \$6,581,948

^{*}Projected repayments Oct 1, 2007 to Sep 30, 2008

DIVISION OF DRINKING WATER STATE LOAN FUNDS

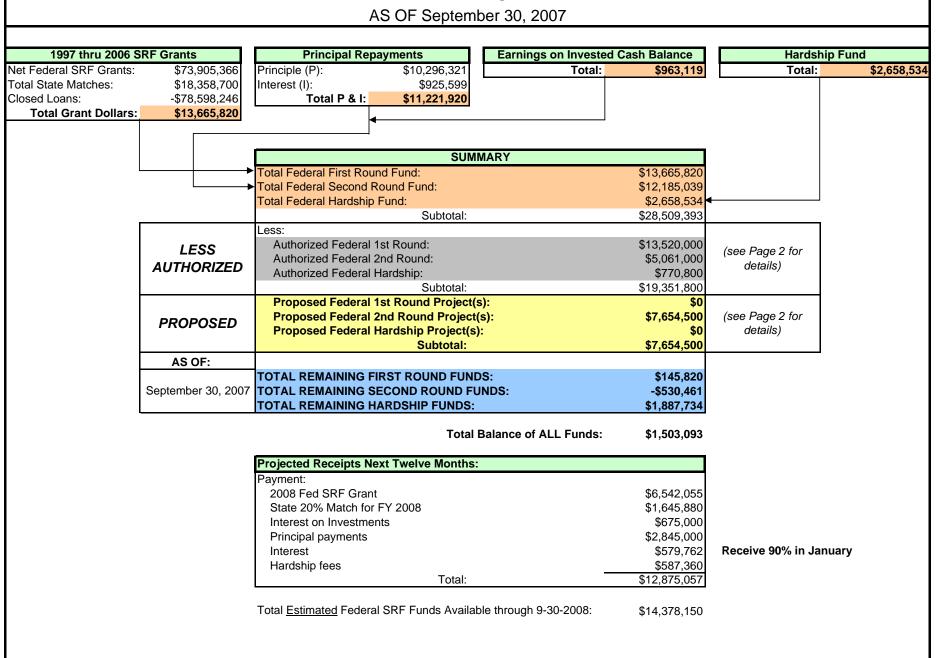
PROJECTS AUTHORIZED BUT NOT YET FUNDED

AS OF SEPTEMBER 30, 2007

		Cost	Date	Date	٨٠٠	thorized Fundin	na
Community	Loan #	Estimate	Authorized	Closed/Anticipated	Loan	Grant	Total
Garden City 2.31% 20 yr*	3S048	2,700,000	Sep-02	Nov-07	\$1,746,000	Olani	\$1,746,000
West Erda 0% 20 yr	3S074	760,000	Jun-04	7	380,000	380,000	760,000
Orderville 2.22% 30 yr	3S099	3,918,000	Nov-06	Nov-07	1,569,000	600,000	2,169,000
Escalante 2.46% 30 yr	3S104	2,160,896	Mar-07	Nov-07	1,560,000	600,896	2,160,896
Cedar Hills 2.71% 20 yr	3S104 3S108	2,100,090	Jul-07	Oct-07	2,090,000	000,690	2,100,890
Bear River 2.19% 20 yr	3S106 3S096		Sep-07	OCI-07	1,800,000	600,000	2,400,000
bear River 2.19% 20 yr	33090		Sep-07		1,000,000	600,000	2,400,000
PLANNING LOANS/GRANTS							
Enterprise (planning loan 0% 5 yr)	3S092	7,000	May-06	Aug-07	7,000		7,000
Wellington (pl loan 2% 5 yr)	3S104	40,000	Mar-07	Sep-07	40,000		40,000
Enoch (pl loan 0% 5 yr)	3S106	36,000	May-07	Sep-07	36,000		36,000
Toquerville (pl 0% 5 yr)	3S107	16,000	Jul-07	Sep-07	16,000		16,000
Paragonah Taragonah	3S110	16,250	Sep-07			16,250	16,250
							0
Total authorized but not yet funded					\$9,244,000	\$2,197,146	\$11,441,146
FY 2008 Federal SRF 20% match					\$1,645,800		\$1,645,800
DDW Board Admin Fee					134,400		134,400
Grand Total					\$11,024,200	\$2,197,146	\$13,221,346
Recently Closed:							
Circleville 2.85% 20 yr	3S105		May-07	Closed Aug 2, 2007**	222,000		222,000
Austin (planning grant)	3S102	14,000	Jan-07	Aug-07		14,000	14,000
*Garden City BAN for \$254,000 was clo	osed June 200	6.					

DIVISION OF DRINKING WATER

FEDERAL SRF



DIVISION OF DRINKING WATER FEDERAL SRF PROJECTS AUTHORIZED BUT NOT YET CLOSED AS OF SEPTEMBER 30, 2007

				AS OF SE	FIEWDER	30, 200 <i>1</i>				
COMMUNITY		Project		Authorized Closing Date Date Scheduled Authorized From Loan Funds (1st Round)				Authorized From Loan Funds (2nd Round)		
	Total	Terms	Loan #			Loan	Forgiveness	Total	Loan	
Central Iron WCD Ph II	7,870,250	2.17% int 20 yrs	3F063	Nov-06	Jun-08	3,425,000		3,425,000		
Logan #3	9,545,000	0.8% int 20 yrs	3F052	May-05	Oct-07	3,000,000		3,000,000		
St George		1.77% int 20 yrs	3F047	Mar-05	Jan-08	1,500,000		1,500,000	4,500,000	
Twin Creeks #2	1,200,000	0% int 30 yrs	3F028	Apr-03	Dec-07	360,000	90,000	450,000		
Woodland Kolob Acres	450,000	3.63% int 15 yrs	3F048	Mar-05	Mar-08			0	450,000	
Midvale	10,000,000	2% int, 20 yrs	3F069	Jul-07	Mar-08	5,050,000		5,050,000		
Snowville	40,000	Principle Forgive	3F046	Jul-07	?		40,000	40,000		
Greenwich		0%, 20 yrs	3F070	Jul-07	?				111,000	110,300
Portage*	1,221,500	HS Grant Portion	3F054	Sep-05	Loan Closed					610,500
			TOTAL	CONSTRUCTION	N AUTHORIZED:	\$ 13,335,000	\$ 130,000	\$ 13,465,000	\$5,061,000	\$ 720,800
PLANNING ADVANCES	AUTHORIZED									
Beaver Dam Water	20,000	planning loan	3F062	May-06	Dec-07	20,000		20,000		
Centerfield	50,000	planning grant	3F068	Nov-06				0		50,000
Greenwich	20,000	planning loan	3F065	Sep-06	Oct-07	20,000		20,000		
Leeds Domestic WUA	15,000	planning loan	3F066	Mar-07		15,000		15,000		
			T	OTAL PLANNING	AUTHORIZED:	\$55,000		\$55,000	\$0	\$50,000
				TOTA	L AUTHORIZED	CONSTRUCTION	& PLANNING:	\$13,520,000	\$5,061,000	\$770,800
PROPOSED PROJECTS	FOR OCTOBE	R/NOVEMBER 20	07:							
Whispering Pines	220,000	Construction		Nov-07	Mar-08				220,000	
Erda Acres	2,420,000	Construction		Nov-07	Jul-08				2,420,000	
Pinon Forest SSD	29,000	Planning		Oct-07					14,500	
Woods Cross	5,000,000	Construction		Nov-07	Jun-08				5,000,000	
		TOTAL P	ROPOSED F	PROJECTS FOR	THIS MEETING:	\$0		\$0	\$7,654,500	\$0
*Eventhough the Portage	loan has closed	d the loan funds are	e being		7	OTAL PROPOSI	D PROJECTS:	\$0	\$7,654,500	\$0
disbursed incrementally a				end.						
and a second sec		g 20 a.o.o.								

5. 2) FEDERAL SRF APPLICATIONS

a) ERDA ACRES WATER COMPANY
- Karin Tatum

DRINKING WATER BOARD BOARD PACKET FOR CONSTRUCTION PROJECT AUTHORIZATION

APPLICANT'S REQUEST:

Erda Acres Water Company is requesting a Construction Loan for the amount of \$1,210,000 at 2.0% interest repayable over 20 years and a grant of \$1,210,000 to construct a new storage tank, upgrade the transmission line, upgrade and place new distribution lines, rehabilitation of their two wells, and chlorination facility to name a few of the major components of the project.

STAFF COMMENTS & RECOMMENDATION:

Erda Acres Water Company (Erda Acres) is doing their part in trying to regionalize small water systems in Erda. Not only have they already agreed to hook on a new development adjacent to their system they are already engaged in conversations with other planned developments. They have also attempted, however unsuccessfully, for 15 months to merge their water system with the West Erda (Golden Gardens) water system. Erda Acres can no longer wait for the Tooele County Commission and must proceed with a project on their own to avoid any more increases in their cost. The project cost has increased nearly \$1,000,000 in the last 15 months. Erda Acres cannot afford to wait.

It is also the feeling of the Division that we are somewhat responsible for the increase in the overall project cost since it was the at the Division's suggestion and urging that Erda Acres would pursue a larger regional water system than they had originally planned. It is a suggestion by the Division that the SRF Committee consider additional principle forgiveness for this project not as an apology for suggesting a larger regional system, but as recognition of our role in the increased costs accrued since last summer.

A graduated repayment schedule has been proposed, which takes into account current connections and growth. A proposed impact/connection fee of \$5,000 is recommended with the connection fee portion being approximately \$3,000. It is also proposed that 60% of collected impact fees that exceed those estimated in the Growth Projection spreadsheet be repaid to the Board as early repayment in case growth exceeds the proposed rate (3.5%). This would be included in the terms of the bond documents.

It is recommended that the DWB authorize \$2,120,000 at 0% interest repayable over 30 years with \$500,000 principle forgiveness for their construction project. The project will address the storage issues on their compliance report as well as other issues with basic operation and maintenance of the water system.

Erda Acres Water Company November 16, 2007 Page 2

SRF COMMITTEE COMMENTS & RECOMMENDATION:

The DWB authorizes a \$2,120,000 construction loan at 0% interest repayable over 30 years with \$500,000 principle forgiveness to Erda Acres Water Company, with the condition that Erda Acres increase their impact fees appropriately and repay 60% of the impact fees collected that exceed the amount of the fees estimated in the Growth Projection spreadsheet and allow a modified repayment schedule as shown in the packet. Erda Acres Water Company will also adhere to the other special conditions outlined in the packet.

APPLICANT'S LOCATION:

Erda Acres Water Company (Erda Acres) is located in Tooele County.

MAP OF APPLICANT'S LOCATION:



PROJECT DESCRIPTION:

The project includes the following:

- Construct a new 700,000 gallon concrete storage tank
- Approximately 8,000 LF of 12" Pipe & Fittings for the Transmission Line
- Rehabilitation of the Nelson Well
- Chlorination Facility
- Water Meters
- SCADA System
- Approximately 2,000 LF of 10" and 8" Pipe & Fittings

According to *Utah Administrative Code R309-510-8*, 400gpd is recommended for indoor use, outdoor use is based on the map zone and acreage irrigated, and 1000gpm for 120 minutes is recommended for fire protection. Taking into consideration fire protection, Erda Acres Water Company (Erda Acres) is currently deficient by approximately 160,000 gallons with their current storage capacity. Using the projected growth rate as spelled out in Erda Acres Culinary Water Master Plan the system will be deficient by greater than 500,000 gallons. The new 700,000 gallon tank will allow Erda Acres to take off line their existing 100,000 gallon tank or use it for emergency purposes only and replace it with the newly proposed tank.

Erda Acres Water Company November 16, 2007 Page 4

The 12" transmission line will be constructed along 400 West Street in Erda and will connect in with the existing water system lines.

New 8" and 10" lines will replace most of the existing Erda Acres distribution system as well as provide culinary water to the Spiral Springs subdivision.

Erda Acres connections do not have a way to measure exact water usage. New water meters will be provided for each of the connections. In addition, a water conservation plan will be established in order to promote conservation of this resource.

Utah Administrative Code, R309-520-10, states that "the design capacity of each chlorinator shall permit the chlorinator capacity to be such that a free chlorine residual of at least 2mg/l can be maintained in the system after 30 minutes of contact time..." In addition, there must be a detectable residual, either combined or free in the system at all times at all points in the distribution system. Currently the water company does not have an automated chlorination system. The proposed project includes chlorination equipment and a control building.

POPULATION GROWTH:

The Tooele County area is estimated to grow at an approximate rate of 3.87% projected over the next 30 years (according to the Governor's Office of Planning and Budget).

IMPLEMENTATION SCHEDULE:

Apply to DWB for Planning Funds:	September 2007
SRF Committee Conference Call:	October 2007
DWB Funding Authorization:	November 2007
Commence Design:	November 2007
Complete Design:	February 2008
Submit Plans:	February 2008
Plan Approval:	March 2008
Advertise for Bids:	April 2008
Bid Opening:	May 2008
Loan Closing:	May/June 2008
Begin Construction:	June 2008
Complete Construction:	December 2008

COST ESTIMATE:

Engineering:	\$320,000
Administration:	\$7,000
Legal/Bonding/Easements:	\$44,000
Environmental:	\$15,000
Land Acquisition:	\$120,000
Construction:	\$1,644,000
Contingency:	\$247,000

Erda Acres Water Company November 16, 2007 Page 5

Subtotal:	\$2,397,000
Loan Origination Fee:	\$23,000
Total Project Cost:	\$2,420,000

COST ALLOCATION:

The cost allocation proposed for the project is shown below.

Funding Source	Cost Sharing	Percent of Project
Local Contribution	\$300,000	13%
DWB Loan	\$1,620,000	70%
DWB Principle Forgiveness	\$500,000	<u>17%</u>
Total Amount:	\$2,420,000	100%

ESTIMATED ANNUAL COST OF WATER SERVICE:

Operation and Maintenance: \$50,000

DDW Debt Service (0%, 30 years): \$21,000

DDW Debt Reserve: \$5,400
Replacement Reserve: \$3,550
Total Annual Cost: \$79,950
Total Revenue: \$15,000
Needed Income: \$64,950

Annual Cost/ERC (82): \$792.07 Monthly Cost/ERC (82): \$66.01

Cost as % MAGI: 1.47%

SPECIAL CONDITIONS:

- 1. Address the appropriate issues on their Compliance Report.
- 2. The Parameters Resolution will need to reflect the Impact/Connection Fees totaling \$5,000 per connection.
- 3. Erda Acres Water Company will not have enough water rights (currently) to provide water to all of the projected users over the life of this loan. It is recommended, per the Culinary Water Master Plan, that the "Water Company require new developers to furnish a minimum of 1.5ac-ft of water per connection". The Master Plan uses 400gpd for indoor water use and 1/3 acre outdoor watering. The water rights required per connection may be adjusted for smaller lots.
- 4. The calculations are based on a conservative growth rate of 3.5%, which is 50% of the engineer's estimate (7%). If Erda Acres Water Company sees additional growth, the annual payments will be increased. A proposed impact/connection fee of \$5,000 is recommended with the connection fee portion being approximately \$3,000. It is also proposed that 60% of the collected impact fees that exceed those estimated in the Growth Projection Spreadsheet be repaid to the Board as early repayment in case growth exceeds the proposed rate (3.5%). This would be included in the terms of the bond documents.

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Erda Acres FUNDING SOURCE: Federal SRF

COUNTY: Tooele

PROJECT DESCRIPTION: Construct new 700,000 gallon tank, distribution, chlorination facilities, water meters, etc

APPROVED	SYSTEM RATING:	82	NO. OF CONNECTIONS:	265	ESTIMATED POPULATION:
\$2,420,970	PROJECT TOTAL:			\$60.00 *	CURRENT AVG WATER BILL:
\$1,620,970	LOAN AMOUNT:	53	FINANCIAL PTS:	1.34%	CURRENT % OF AGI:
\$500,000	INC. FORGIVENESS:	PR		\$53,719	ESTIMATED MEDIAN AGI:
\$2,120,970	TOTAL REQUEST:			\$34,801	STATE AGI:
		•		154%	SYSTEM % OF STATE AGI:

	@ ZERO %	@ RBBI	AFTER REPAYMENT
	RATE	MKT RATE	PENALTY & POINTS
	0%	4.66%	2.69%
ASSUMED LENGTH OF DEBT, YRS:	30	30	30
ASSUMED NET EFFECTIVE INT. RATE:	0.00%	4.66%	2.69%
REQUIRED DEBT SERVICE:	\$21,000.00	\$101,492.00	\$79,578.00
*PARTIAL COVERAGE (15%):	\$0.00	\$15,223.80	\$11,936.70
*ADD. COVERAGE AND RESERVE (10%):	\$5,400.00	\$10,133.46	\$7,937.39
ANNUAL DEBT PER CONNECTION:	\$321.95	\$1,546.94	\$1,212.83
O & M + FUNDED DEPRECIATION:	\$50,000.00	\$50,000.00	\$50,000.00
OTHER DEBT + COVERAGE:	\$0.00	\$0.00	\$0.00
REPLACEMENT RESERVE ACCOUNT:	\$3,550.00	\$0.00	\$0.00
NEEDED SYSTEM INCOME:	\$38,550.00	\$35,000.00	\$35,000.00
ANNUAL O&M PER CONNECTION:	\$470.12	\$426.83	\$426.83
AVG MONTHLY WATER BILL:	\$66.01	\$164.48	\$136.64
% OF ADJUSTED GROSS INCOME:	1.47%	3.67%	3.05%

Impact Fee = \$3000

DWB Loan Terms	
Local Share (total):	\$ 300,000
Additional PF:	\$ 100,000
DWB PF Amount:	\$ 400,000
DWB Loan Amount:	\$ 1,620,000
DWB Loan Term:	30
DWB Loan Interest:	0.00%
DWB Loan Payment:	\$ 54,000

Delay in Construction for 15 Months.

DW Expenses (Estimated)	
Proposed Facility Capital Cost:	\$ 2,420,000
Existing Facility O&M Expense:	\$ 40,000
Proposed Facility O&M Expense:	\$ 50,000
O&M Inflation Factor:	0.0%
Existing Debt Service:	\$ -

Impact Fee - \$5000		
\$	-	
	79	
	3.5%	
\$	5,000	
\$	45.00	
\$	60.00	
	76.10	
	\$ \$ \$	

DW I	DW Revenue Projections								Early Repayment												
(irowth	Annual	ERDA ACI	RES/SPIRAL		Additional Growth						Potential	Potential		Existing						Debt
	Rate	Growth	Total Users	User Charge	Impact Fee	60% of Impact	Total	DWB Loan	DWB Loan	Remaining	Principal	Remaining	Total Debt	Interest	DW Debt	O&M	Total	Beginning	Ending	Net	Service
Yr	(%)	(ERU)	(ERU)	Revenue	Revenue	Fee (\$1,800)	Revenue	Repayment	Reserves	Principal	Payment	Principal	Payment	Payment	Service	Expenses	Expenses	Cash	Cash Flow	Revenue	Ratio
0	3.5%	3	82	44,280	15,000		59,280	-	-	1,620,000	-	1,620,000		-	-	-	-	-	59,280	59,280	-
1	3.5%	3	85	61,200	15,000	5,400	76,200	21,000	5,400	1,599,000	21,000	1,593,600	26,400	-	-	50,000	76,400	59,280	59,080 -	200	1.25
2	3.5%	3	88	63,360	15,000	5,400	78,360	22,000	5,400	1,577,000	22,000	1,566,200	27,400	-	-	50,000	77,400	59,080	60,040	960	1.29
3	3.5%	3	91	65,520	15,000	7,200	80,520	24,000	5,400	1,553,000	24,000	1,535,000	31,200	-	-	50,000	79,400	60,040	61,160	1,120	1.27
4	3.5%	3	94	67,680	15,000	7,200	82,680	26,000	5,400	1,527,000	26,000	1,501,800	33,200	-	-	50,000	81,400	61,160	62,440	1,280	1.26
5	3.5%	3	97	69,840	15,000	9,000	84,840	27,000	5,400	1,500,000	27,000	1,465,800	36,000	-	-	50,000	82,400	62,440	64,880	2,440	1.29
6	3.5%	3	100	72,000	15,000	9,000	87,000	29,000	5,400	1,471,000	29,000	1,427,800	38,000	-	-	50,000	84,400	64,880	67,480	2,600	1.28
7	3.5%	4	104	74,880	20,000	10,800	94,880	36,000	5,400	1,435,000	36,000	1,381,000	46,800	-	-	50,000	91,400	67,480	70,960	3,480	1.25
8	3.5%	4	108	77,760	20,000	12,600	97,760	38,000	5,400	1,397,000	38,000	1,330,400	50,600	-	-	50,000	93,400	70,960	75,320	4,360	1.26
9	3.5%	4	112	80,640	20,000	12,600	100,640	40,000	5,400	1,357,000	40,000	1,277,800	52,600	-	-	50,000	95,400	75,320	80,560	5,240	1.27
10	3.5%	4	116	83,520	20,000	14,400	103,520	42,000	5,400	1,315,000	42,000	1,221,400	56,400	-	-	50,000	97,400	80,560	86,680	6,120	1.27
11	3.5%	4	120	86,400	20,000	16,200	106,400	42,000		1,273,000	42,000	1,163,200	58,200	-	-	50,000	92,000	86,680	101,080	14,400	1.34
12	3.5%	4	124	89,280	20,000	18,000	109,280	43,000		1,230,000	43,000	1,102,200	61,000	-	-	50,000	93,000	101,080	117,360	16,280	1.38
13	3.5%	4	128	92,160	20,000	18,000	112,160	50,000		1,180,000	50,000	1,034,200	68,000	-	-	50,000	100,000	117,360	129,520	12,160	1.24
14	3.5%	4	132	95,040	20,000	19,800	115,040	50,000		1,130,000	50,000	964,400	69,800	-	-	50,000	100,000	129,520	144,560	15,040	1.30
15	3.5%	5	137	98,640	25,000	21,600	123,640	50,000		1,080,000	50,000	892,800	71,600	-	-	50,000	100,000	144,560	168,200	23,640	1.47
16	3.5%	5	142	102,240	25,000	23,400	127,240	50,000		1,030,000	50,000	819,400	73,400	-	-	50,000	100,000	168,200	195,440	27,240	1.54
17	3.5%	5	147	105,840	25,000	27,000	130,840	60,000		970,000	60,000	732,400	87,000	-	-	50,000	110,000	195,440	216,280	20,840	1.35
18	3.5%	5	152	109,440	25,000	28,800	134,440	60,000		910,000	60,000	643,600	88,800	-	-	50,000	110,000	216,280	240,720	24,440	1.41
19	3.5%	5	157	113,040	25,000	30,600	138,040	60,000		850,000	60,000	553,000	90,600	-	-	50,000	110,000	240,720	268,760	28,040	1.47
20	3.5%	5	162	116,640	25,000	32,400	141,640	60,000		790,000	60,000	460,600	92,400	-	-	50,000	110,000	268,760	300,400	31,640	1.53
21	3.5%	6	168	120,960	30,000	32,400	150,960	60,000		730,000	60,000	368,200	92,400	-	-	50,000	110,000	300,400	341,360	40,960	1.68
22	3.5%	6	174	125,280	30,000	32,400	155,280	70,000		660,000	70,000	265,800	102,400	-	-	50,000	120,000	341,360	376,640	35,280	1.50
23	3.5%	6	180	129,600	30,000	32,400	159,600	70,000		590,000	70,000	163,400	102,400	-	-	50,000	120,000	376,640	416,240	39,600	1.57
24	3.5%	6	186	133,920	30,000	32,400	163,920	80,000		510,000	80,000	51,000	112,400	-	-	50,000	130,000	416,240	450,160	33,920	1.42
25	3.5%	7	193	138,960	35,000	32,400	173,960	80,000		430,000	80,000	-	51,000	-	-	50,000	130,000	450,160	494,120	43,960	1.55
26	3.5%	7	200	144,000	35,000		179,000	85,000		345,000	85,000			-	-	50,000	135,000	494,120	538,120	44,000	1.52
27	3.5%	7	207	149,040	35,000		184,040	85,000		260,000	85,000			-	-	50,000	135,000	538,120	587,160	49,040	1.58
28	3.5%	7	214	154,080	35,000		189,080	85,000		175,000	85,000			-	-	50,000	135,000	587,160	641,240	54,080	1.64
29	3.5%	7	221	159,120	35,000		194,120	85,000		90,000	85,000			-	-	50,000	135,000	641,240	700,360	59,120	1.70
30	3.5%	8	229	164,880	40,000		204,880	90,000		-	90,000			-	-	50,000	140,000	700,360	765,240	64,880	1.72
									Total Paid in	Debt Service =	1,620,000		1,620,000	-	=						

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ERDA ACRES PROJECT

EARLY REPAYMENT CALCULATIONS (BASED ON 7% GROWTH)

DWB Loan Terms			
Local Share (total):	\$	300,000	
Additional PF:	\$	100,000	Delay in Construction for 15 Months.
DWB PF Amount:	\$	400,000	
DWB Loan Amount:	\$	1,620,000	
DWB Loan Term:		30	
DWB Loan Interest:		0.00%	
DWB Loan Payment:	S	54 000	

DW Expenses (Estimated)	
Proposed Facility Capital Cost:	\$ 2,420,000
Existing Facility O&M Expense:	\$ 40,000
Proposed Facility O&M Expense:	\$ 50,000
O&M Inflation Factor:	0.0%
Existing Debt Service:	\$ -

DW Revenue Sources (Projected)	
Beginning Cash:	\$ -
Existing Customers (ERU):	79
Projected Growth Rate:	7.0%
Treatment Impact Fee/Connection Fee:	\$ 5,000
ERDA ACRES & SPIRAL SPRINGS MONTHLY:	\$ 45.00
Erda Acres & Spiral Springs New Monthly:	\$ 60.00
1.7% of MAGI	76.10

DW Revenue Projections

Gı	rowth	Annual	ERDA ACR	ES/SPIRAL								Existing						Debt
I	Rate	Growth	Total Users	User Charge	Impact Fee	Total	DWB Loan	DWB Loan	Remaining	Principal	Interest	DW Debt	O&M	Total	Beginning	Ending	Net	Service
Yr	(%)	(ERU)	(ERU)	Revenue	Revenue	Revenue	Repayment	Reserves	Principal	Payment	Payment	Service	Expenses	Expenses	Cash	Cash Flow	Revenue	Ratio
0	7.0%	6	85	45,900	30,000	75,900	-		1,620,000	=	-	-	-	-	-	75,900	75,900	-
1	7.0%	6	91	65,520	30,000	95,520	35,000	5,400	1,585,000	35,000	-	-	50,000	90,400	75,900	81,020	5,120	1.30
2	7.0%	6	97	69,840	30,000	99,840	40,000	5,400	1,545,000	40,000	-	-	50,000	95,400	81,020	85,460	4,440	1.25
3	7.0%	7	104	74,880	35,000	109,880	45,000	5,400	1,500,000	45,000	-	-	50,000	100,400	85,460	94,940	9,480	1.33
4	7.0%	7	111	79,920	35,000	114,920	50,000	5,400	1,450,000	50,000	-	-	50,000	105,400	94,940	104,460	9,520	1.30
5	7.0%	8	119	85,680	40,000	125,680	55,000	5,400	1,395,000	55,000	-	-	50,000	110,400	104,460	119,740	15,280	1.38
6	7.0%	8	127	91,440	40,000	131,440	60,000	5,400	1,335,000	60,000	-	-	50,000	115,400	119,740	135,780	16,040	1.36
7	7.0%	9	136	97,920	45,000	142,920	70,000	5,400	1,265,000	70,000	-	-	50,000	125,400	135,780	153,300	17,520	1.33
8	7.0%	10	146	105,120	50,000	155,120	80,000	5,400	1,185,000	80,000	-	-	50,000	135,400	153,300	173,020	19,720	1.31
9	7.0%	10	156	112,320	50,000	162,320	85,000	5,400	1,100,000	85,000	-	-	50,000	140,400	173,020	194,940	21,920	1.32
10	7.0%	11	167	120,240	55,000	175,240	90,000	5,400	1,010,000	90,000	-	-	50,000	145,400	194,940	224,780	29,840	1.39
11	7.0%	12	179	128,880	60,000	188,880	90,000		920,000	90,000	-	-	50,000	140,000	224,780	273,660	48,880	1.54
12	7.0%	13	192	138,240	65,000	203,240	90,000		830,000	90,000	-	-	50,000	140,000	273,660	336,900	63,240	1.70
13	7.0%	13	205	147,600	65,000	212,600	90,000		740,000	90,000	-	-	50,000	140,000	336,900	409,500	72,600	1.81
14	7.0%	14	219	157,680	70,000	227,680	90,000		650,000	90,000	-	-	50,000	140,000	409,500	497,180	87,680	1.97
15	7.0%	15	234	168,480	75,000	243,480	100,000		550,000	100,000	-	-	50,000	150,000	497,180	590,660	93,480	1.93
16	7.0%	16	250	180,000	80,000	260,000	150,000		400,000	150,000	-	-	50,000	200,000	590,660	650,660	60,000	1.40
17	7.0%	18	268	192,960	90,000	282,960	150,000		250,000	150,000	=	=	50,000	200,000	650,660	733,620	82,960	1.55
18	7.0%	19	287	206,640	95,000	301,640	150,000		100,000	150,000	=	=	50,000	200,000	733,620	835,260	101,640	1.68
19	7.0%	20	307	221,040	100,000	321,040	150,000		- 50,000	150,000	-	-	50,000	200,000	835,260	956,300	121,040	1.81
20	7.0%	21	328	236,160	105,000	341,160	157,000		- 207,000	157,000	-	-	50,000	207,000	956,300	1,090,460	134,160	1.85
								Total Paid in	Debt Service =	1,827,000	-	_						

ERDA ACRES WATER COMPANY

PROPOSED BOND REPAYMENT SCHEDULE

 PRINCIPAL
 \$1,620,000.00
 ANTICIPATED CLOSING DATE
 01-Jun-08

 INTEREST
 4.66%
 P&I PAYMT DUE
 01-Jun-09

 TERM
 30
 REVENUE BOND

 NOMIN. PAYMENT
 \$101,334.57
 PRINC PREPAID:
 \$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2009	\$1.620.000.00		\$44.037.00 *	\$0.00	\$44.037.00	\$1.620.000.00	0
2010	\$1,620,000.00		\$101,492.00	\$26.000.00	\$75,492.00	\$1,594,000.00	1
2011	\$1,594,000.00		\$101,280.40	\$27,000.00	\$74,280.40	\$1,567,000.00	2
2012	\$1,567,000.00		\$101,022.20	\$28,000.00	\$73,022.20	\$1,539,000.00	3
2013	\$1,539,000.00		\$101,717.40	\$30,000.00	\$71,717.40	\$1,509,000.00	4
2014	\$1,509,000.00		\$101,319.40	\$31,000.00	\$70,319.40	\$1,478,000.00	5
2015	\$1,478,000.00		\$100,874.80	\$32,000.00	\$68,874.80	\$1,446,000.00	6
2016	\$1,446,000.00		\$101,383.60	\$34,000.00	\$67,383.60	\$1,412,000.00	7
2017	\$1,412,000.00		\$101,799.20	\$36,000.00	\$65,799.20	\$1,376,000.00	8
2018	\$1,376,000.00		\$101,121.60	\$37,000.00	\$64,121.60	\$1,339,000.00	9
2019	\$1,339,000.00		\$101,397.40	\$39,000.00	\$62,397.40	\$1,300,000.00	10
2020	\$1,300,000.00		\$101,580.00	\$41,000.00	\$60,580.00	\$1,259,000.00	11
2021	\$1,259,000.00		\$101,669.40	\$43,000.00	\$58,669.40	\$1,216,000.00	12
2022	\$1,216,000.00		\$101,665.60	\$45,000.00	\$56,665.60	\$1,171,000.00	13
2023	\$1,171,000.00		\$101,568.60	\$47,000.00	\$54,568.60	\$1,124,000.00	14
2024	\$1,124,000.00		\$101,378.40	\$49,000.00	\$52,378.40	\$1,075,000.00	15
2025	\$1,075,000.00		\$101,095.00	\$51,000.00	\$50,095.00	\$1,024,000.00	16
2026	\$1,024,000.00		\$100,718.40	\$53,000.00	\$47,718.40	\$971,000.00	17
2027	\$971,000.00		\$101,248.60	\$56,000.00	\$45,248.60	\$915,000.00	18
2028	\$915,000.00		\$101,639.00	\$59,000.00	\$42,639.00	\$856,000.00	19
2029	\$856,000.00		\$100,889.60	\$61,000.00	\$39,889.60	\$795,000.00	20
2030	\$795,000.00		\$101,047.00	\$64,000.00	\$37,047.00	\$731,000.00	21
2031	\$731,000.00		\$101,064.60	\$67,000.00	\$34,064.60	\$664,000.00	22
2032	\$664,000.00		\$100,942.40	\$70,000.00	\$30,942.40	\$594,000.00	23
2033	\$594,000.00		\$101,680.40	\$74,000.00	\$27,680.40	\$520,000.00	24
2034	\$520,000.00		\$101,232.00	\$77,000.00	\$24,232.00	\$443,000.00	25
2035	\$443,000.00		\$101,643.80	\$81,000.00	\$20,643.80	\$362,000.00	26
2036	\$362,000.00		\$100,869.20	\$84,000.00	\$16,869.20	\$278,000.00	27
2037	\$278,000.00		\$100,954.80	\$88,000.00	\$12,954.80	\$190,000.00	28
2038	\$190,000.00		\$101,854.00	\$93,000.00	\$8,854.00	\$97,000.00	29
2039	\$97,000.00		\$101,520.20	\$97,000.00	\$4,520.20	(\$0.00)	30
			\$3,083,706.00	\$1,620,000.00	\$1,463,706.00	•	

^{*}Interest Only Payment

Erda Acres Water Company November 16, 2007 Page 6

APPLICANT: Erda Acres Water Company

P.O. Box 11

Tooele, Utah 84074-0011

PRESIDING OFFICIAL &

CONTACT PERSON: Allan Deware, President

3822 North 570 West Erda, Utah 84074

Telephone: (435) 882-0708 Email: adeware@erda.net

CONSULTING ENGINEER: Kevin Brown, P.E.

Sunrise Engineering

12227 South Business Park Drive, Ste. 220

Draper, Utah 84020

Telephone: (801) 523-0100

Fax: (801) 523-0990

Email: kbrown@sunrise-eng.com

FINANCIAL CONSULTANT: None Appointed

ATTORNEY: None Appointed

23053 Erda Acres Water Co. Compliance Report April 2, 2007

Administration:

No issues.

Operator Certification:

No issues.

Bacteriological Information:

No issues.

Chemical Monitoring:

The system needs to monitor for nitrate at their Nelson and Campbell wells in 2006.

Lead/Copper:

The system needs to sample for lead/copper at five sites in 2006.

Consumer Confidence Report

No issues.

Physical Facilities:

The system needs additional storage before they can grant additional connections.

Drinking Water Source Protection:

Updated DWSP Plans were due December 31, 2004 for WELL #2 NELSON (WS002) and #3 CAMPBELL (WS003).

Engineering Plan Review:

No issues.

5. 2) FEDERAL SRF APPLICATIONS

b) WOODS CROSS CITY
- Michael Grange

DRINKING WATER BOARD BOARD PACKET FOR CONSTRUCTION LOAN INTRODUCTION TO SRF COMMITTEE

APPLICANT'S REQUEST

Woods Cross City is requesting \$5,000,000 in financial assistance to construct a 3.17 million gallon concrete culinary water storage reservoir, drill a new well, and install approximately 5,000 feet of new distribution line. The new storage reservoir is needed to replace older tanks that are difficult to maintain and are subject to impending failure. The new well is needed to replace two wells taken out of service due to a contaminated groundwater aquifer. The new distribution line is needed to provide service to areas of the city where projected growth is expected within the next five years.

STAFF COMMENTS:

The current average water bill is \$14.78 per month, based on rate and connection information supplied by Woods Cross City.

Under the proposed funding package, which consists of a \$5,000,000 construction loan at 3.49% interest for 20 years, the system's monthly water bill will be \$31.02.

Staff recommends authorizing a \$5,000,000 construction loan at 3.49% interest for 20 years to Woods Cross City for construction of a new 3.17 million gallon concrete culinary water storage reservoir, drilling a new well, and installing approximately 5,000 feet of new distribution line.

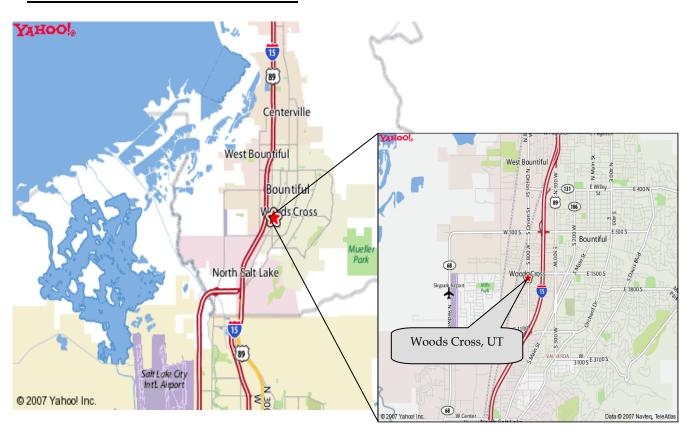
SRF / CONSERVATION COMMITTEE RECOMMENDATION:

The Drinking Water Board authorize a \$5,000,000 construction loan at 3.49% interest for 20 years to Woods Cross City for construction of a new 3.17 million gallon concrete culinary water storage reservoir, drilling a new well, and installing approximately 5,000 feet of new distribution line.

APPLICANT'S LOCATION:

Woods Cross City is located in Davis County, approximately 5 miles north of Salt Lake City.

MAP OF APPLICANT'S LOCATION:



PROJECT DESCRIPTION:

Construct a 3.17 million gallon concrete culinary water storage reservoir, drill a new well, and install approximately 5,000 feet of new distribution line.

ALTERNATIVES CONSIDERED:

Three different reservoir locations were considered for this project. The proposed reservoir location was chosen as the best solution because Woods Cross owns the property and it is at the proper elevation to provide the required system pressure. Different well sites are still under investigation. The site that provides the best performance will be selected for the new well. Distribution line alignment along 500 South and along Redwood Road provide the best service location for the new distribution lines.

POPULATION GROWTH:

According to the Governor's Office of Planning and Budget, Woods Cross City is expected to grow at an average annual rate of change of 1.52% through 2030.

	Year	Population	ERC's
Current	2005	8,942	2,652
Projected	2030	10,282	2,900

IMPLEMENTATION SCHEDULE:

Apply to DWB for Funding:	July 2007
DWB Funding Authorization:	November 2007
Plans Submitted:	January 2008
Plan Approval:	February 2008
Advertise for Bids:	February 2008
Bid Opening:	March 2008
Loan Closing:	April 2008
Begin Construction:	April 2008
Complete Construction:	April 2009

COST ESTIMATE:

Construction:	\$4,078,148
Engineering:	\$297,258
Contingency:	\$524,594
Legal/Bonding:	\$50,000
DDW Loan Origination Fee:	\$50,000
Total Capital Cost:	\$5,000,000

COST ALLOCATION:

The cost allocation proposed for the project is shown below.

Funding Source	Cost Sharing	Percent of Project
DWB Loan (3.49%, 20 yrs)	\$5,000,000	100.00%
Total Amount:	\$5,000,000	100.00%

ESTIMATED ANNUAL COST OF WATER SERVICE:

Operation & Maintenance:	\$596,823
DDW Debt Service (3.49%, 20 yrs):	\$351,487
DDW 10% Coverage:	\$35,149
DDW 15% Partial Coverage:	\$52,723
Total Annual Cost / ERU:	\$372.28
Monthly Cost / ERU:	\$31.02
Cost as % of MAGI:	0.88%

Woods Cross City November 16, 2007 Page 4 of 6

SPECIAL CONDITIONS:

If necessary, resolve any issues on Compliance Report.

Woods Cross City November 16, 2007 Page 5 of 6

CONTACT INFORMATION:

APPLICANT: Woods Cross City Corporation

1555 South 800 West Woods Cross, UT 84087

801-292-4421

PRESIDING OFFICIAL &

CONTACT PERSON: Kent Parry, Mayor

1555 South 800 West Woods Cross, UT 84087

801-292-4421

CONSULTING ENGINEER: Lee Cammack

J.U.B. Engineers. Inc. 466 North 900 West Kaysville, UT 84037

801-756-0309

CITY ATTORNEY: Michael Mazuran

Mazuran & Hayes

2118 East 3900 South, Ste B300 Salt Lake City, UT 84124

801-272-8998

BOND ATTORNEY: Randy Larsen

Ballard Spahr Andrew & Ingersoll

201 South Main, Ste 600 Salt Lake City, UT 84111

801-531-3079

FINANCIAL CONSULTANT: Johnathan Ward

Zions Bank Public Finance One South Main, 18th Floor Salt Lake City, UT 84111

801-844-7379

 $C: \label{local-condition} C: \label{local-condition} Comments and Settings \label{local-condition} Mgrange \label{local-condition} My Documents \label{local-condition} Current Projects \label{local-condition} Woods Cross_Board Packet_Nov 12007. documents \label{local-condition} A support \label{local-condition} A support \label{local-condition} A support \label{local-condition} Current Projects \label{local-condition} Woods \label{local-condition} Current Projects \label{local-condition} A support \label{loc$

DRINKING WATER BOARD FINANCIAL ASSISTANCE EVALUATION

SYSTEM NAME: Woods Cross Water System FUNDING SOURCE: Federal SRF (2nd Round)

COUNTY: Davis

PROJECT DESCRIPTION: new water storage reservoir, new distribution line, new well

100 % Loan

ESTIMATED POPULATION:	8,942	NO. OF CONNECTIONS:	2652	SYSTEM RATING:	APPROVED
CURRENT AVG WATER BILL:	\$14.78 *			PROJECT TOTAL:	\$5,000,000
CURRENT % OF AGI:	0.42%	FINANCIAL PTS:	32	LOAN AMOUNT:	\$5,000,000
ESTIMATED MEDIAN AGI:	\$42,342		PRI	NC. FORGIVENESS:	\$0
STATE AGI:	\$34,801			TOTAL REQUEST:	\$5,000,000
SYSTEM % OF STATE AGI	122%				

		1
@ ZERO %	@ RBBI	AFTER REPAYMENT
RATE	MKT RATE	PENALTY & POINTS
0%	4.69%	3.49%
20	20	20
0.00%	4.69%	3.49%
\$250,000.00	\$390,734.99	\$351,487.13
\$0.00	\$58,610.25	\$52,723.07
\$25,000.00	\$39,073.50	\$35,148.71
\$103.70	\$184.17	\$165.67
\$596,823.00	\$596,823.00	\$596,823.00
\$0.00	\$0.00	\$0.00
\$43,841.15	\$0.00	\$0.00
\$591,776.15	\$547,935.00	\$547,935.00
\$223.14	\$206.61	\$206.61
\$27.24	\$32.57	\$31.02
	·	
0.77%	0.92%	0.88%
	0% 20 0.00% \$250,000.00 \$0.00 \$103.70 \$596,823.00 \$0.00 \$43,841.15 \$591,776.15 \$223.14 \$27.24	RATE 0% 4.69% 20 20 0.00% 4.69% \$250,000.00 \$390,734.99 \$0.00 \$58,610.25 \$25,000.00 \$39,073.50 \$103.70 \$184.17 \$596,823.00 \$596,823.00 \$0.00 \$0.00 \$43,841.15 \$0.00 \$43,841.15 \$0.00 \$591,776.15 \$547,935.00 \$223.14 \$206.61 \$27.24 \$32.57

^{*} Current water bill is based on 2006 revenue & number of connections

Woods Cross Water System

DWB Loan Terms		
Local Share (total):	\$	-
Other Agency Funding:	\$	-
DWB Grant Amount:	\$	-
DWB Loan Amount:	\$	5,000,000
DWB Loan Term:		20
DWB Loan Interest:		3.49%
DWR I can Payment:	•	351 497

DW Expenses (Estimated)	
Proposed Facility Capital Cost:	\$ 5,000,000
Existing Facility O&M Expense:	\$ 596,823
Proposed Facility O&M Expense:	\$ 596,823
O&M Inflation Factor:	1.0%
Existing Debt Service:	\$ -

DW Revenue Sources (Projected)						
Beginning Cash:	\$	-				
Existing Customers (ERC):		2,652				
Projected Growth Rate:		0.8%				
Impact Fee/Connection Fee:	\$	2,328				
Current Monthly User Charge:	\$	14.78				
Needed Average Monthly User Charge:	\$	31.02				

Yr	rowth Rate (%)	Annual Growth (ERC)	Total Users															
Yr	(%)		Users									Existing						Debt
		(ERC)		User Charge	Impact Fee	Total	DWB Loan	DWB Loan	Remaining	Principal	Interest	DW Debt	O&M	Total	Beginning	Ending	Net	Service
0	0.8%	(Litte)	(ERC)	Revenue	Revenue	Revenue	Repayment	Reserves	Principal	Payment	Payment	Service	Expenses	Expenses	Cash	Cash Flow	Revenue	Ratio
		21	2,652	470,371	48,888	519,259	-	-	5,000,000	-	-	-	596,823	596,823		77,564	77,564	-
1	0.8%	21	2,673	995,112	48,888	1,044,000	242,500	35,149	4,932,000	68,000	174,500	115,373	596,823	989,845 -	77,564 -	23,409	54,155	1.25
2	0.8%	22	2,695	1,003,302	51,216	1,054,518	245,127	35,149	4,859,000	73,000	172,127	115,373	602,791	998,440 -	23,409	32,669	56,078	1.25
3	0.8%	21	2,716	1,011,120	48,888	1,060,008	357,579	35,149	4,671,000	188,000	169,579	-	608,819	1,001,547	32,669	91,131	58,461	1.26
4	0.8%	22	2,738	1,019,310	51,216	1,070,526	361,018	35,149	4,473,000	198,000	163,018	-	614,907	1,011,074	91,131	150,583	59,452	1.26
5	0.8%	22	2,760	1,027,500	51,216	1,078,716	366,108	35,149	4,263,000	210,000	156,108	-	621,056	1,022,313	150,583	206,986	56,404	1.25
6	0.8%	22	2,782	1,035,691	51,216	1,086,907	363,779	35,149	4,048,000	215,000	148,779	-	627,267	1,026,194	206,986	267,699	60,712	1.26
7	0.8%	22	2,804	1,043,881	51,216	1,095,097	370,275	35,149	3,819,000	229,000	141,275	-	633,540	1,038,964	267,699	323,832	56,133	1.25
8	0.8%	23	2,827	1,052,443	53,544	1,105,987	370,283	35,149	3,582,000	237,000	133,283	-	639,875	1,045,307	323,832	384,513	60,681	1.26
9	0.8%	22	2,849	1,060,634	51,216	1,111,850	370,012	35,149	3,337,000	245,000	125,012	-	646,274	1,051,434	384,513	444,928	60,415	1.26
10	0.8%	23	2,872	1,069,196	53,544	1,122,740	370,461	35,149	3,083,000	254,000	116,461	-	652,737	1,058,347	444,928	509,322	64,394	1.27
11	0.8%	23	2,895	1,077,759	53,544	1,131,303	370,597		2,820,000	263,000	107,597	-	659,264	1,029,861	509,322	610,764	101,442	1.27
12	0.8%	23	2,918	1,086,321	53,544	1,139,865	370,418		2,548,000	272,000	98,418	-	665,857	1,036,275	610,764	714,354	103,591	1.28
13	0.8%	23	2,941	1,094,884	53,544	1,148,428	370,925		2,266,000	282,000	88,925	-	672,515	1,043,440	714,354	819,342	104,987	1.28
14	0.8%	24	2,965	1,103,818	55,872	1,159,690	370,083		1,975,000	291,000	79,083	-	679,240	1,049,324	819,342	929,708	110,367	1.30
15	0.8%	24	2,989	1,112,753	55,872	1,168,625	370,928		1,673,000	302,000	68,928	-	686,033	1,056,960	929,708	1,041,373	111,665	1.30
16	0.8%	24	3,013	1,121,688	55,872	1,177,560	370,388		1,361,000	312,000	58,388	-	692,893	1,063,281	1,041,373	1,155,653	114,279	1.31
17	0.8%	24	3,037	1,130,623	55,872	1,186,495	370,499		1,038,000	323,000	47,499	-	699,822	1,070,321	1,155,653	1,271,827	116,174	1.31
18	0.8%	24	3,061	1,139,558	55,872	1,195,430	370,226		704,000	334,000	36,226	-	706,820	1,077,046	1,271,827	1,390,210	118,383	1.32
19	0.8%	24	3,085	1,148,492	55,872	1,204,364	370,570		358,000	346,000	24,570	-	713,888	1,084,458	1,390,210	1,510,116	119,906	1.32
20	0.8%	25	3,110	1,157,799	58,200	1,215,999	370,494		-	358,000	12,494	-	721,027	1,091,521	1,510,116	1,634,594	124,478	1.34
								Total Paid in	Debt Service =	5,000,000	2,122,269							

Woods Cross Water System

PROPOSED BOND REPAYMENT SCHEDULE

100 % Loan

PRINCIPAL	\$5,000,000.00	ANTICIPATED CLOSING DATE	01-Apr-08
INTEREST	3.49%	P&I PAYMT DUE	01-Sep-09
TERM	20	REVENUE BOND	
NOMIN. PAYMENT	\$351,487.13	PRINC PREPAID:	\$0.00

YEAR	BEGINNING BALANCE	DATE OF PAYMENT	PAYMENT	PRINCIPAL	INTEREST	ENDING BALANCE	PAYM NO.
2008	\$5,000,000.00		\$74,162.50 *	\$0.00	\$74,162.50	\$5,000,000.00	0
2009	\$5,000,000.00		\$242,500.00	\$68,000.00	\$174,500.00	\$4,932,000.00	1
2010	\$4,932,000.00		\$245,126.80	\$73,000.00	\$172,126.80	\$4,859,000.00	2
2011	\$4,859,000.00		\$357,579.10	\$188,000.00	\$169,579.10	\$4,671,000.00	3
2012	\$4,671,000.00		\$361,017.90	\$198,000.00 \$163,017.90		\$4,473,000.00	4
2013	\$4,473,000.00		\$366,107.70	\$210,000.00	\$156,107.70	\$4,263,000.00	5
2014	\$4,263,000.00		\$363,778.70	\$215,000.00	\$148,778.70	\$4,048,000.00	6
2015	\$4,048,000.00		\$370,275.20	\$229,000.00	\$141,275.20	\$3,819,000.00	7
2016	\$3,819,000.00		\$370,283.10	\$237,000.00	\$133,283.10	\$3,582,000.00	8
2017	\$3,582,000.00		\$370,011.80	\$245,000.00	\$125,011.80	\$3,337,000.00	9
2018	\$3,337,000.00		\$370,461.30	\$254,000.00	\$116,461.30	\$3,083,000.00	10
2019	\$3,083,000.00		\$370,596.70	\$263,000.00	\$107,596.70	\$2,820,000.00	11
2020	\$2,820,000.00		\$370,418.00	\$272,000.00	\$98,418.00	\$2,548,000.00	12
2021	\$2,548,000.00		\$370,925.20	\$282,000.00	\$88,925.20	\$2,266,000.00	13
2022	\$2,266,000.00		\$370,083.40	\$291,000.00	\$79,083.40	\$1,975,000.00	14
2023	\$1,975,000.00		\$370,927.50	\$302,000.00	\$68,927.50	\$1,673,000.00	15
2024	\$1,673,000.00		\$370,387.70	\$312,000.00	\$58,387.70	\$1,361,000.00	16
2025	\$1,361,000.00		\$370,498.90	\$323,000.00	\$47,498.90	\$1,038,000.00	17
2026	\$1,038,000.00		\$370,226.20	\$334,000.00	\$36,226.20	\$704,000.00	18
2027	\$704,000.00		\$370,569.60	\$346,000.00	\$24,569.60	\$358,000.00	19
2028	\$358,000.00		\$370,494.20	\$358,000.00	\$12,494.20	\$0.00	20
			\$7,196,431.50	\$5,000,000.00	\$2,196,431.50		

^{*}Interest Only Payment

06021 Woods Cross

	Compliance Report October 10, 2007
Administration:	
No Issues	

Operator Certification:

No Issues

Bacteriological Information:

Total Coliform Public Notice violation for August 2005.

Chemical Monitoring:

No Issues

Lead/Copper:

No Issues

Consumer Confidence Report:

No Issues

Physical Facilities:

No Issues

Drinking Water Source Protection:

Woods Cross is in compliance with all source protection requirements as of this date.

AGENDA ITEM 7

APPROVAL OF THE 2008 MEETING SCHEDULES - Ken Bousfield

a) BOARD MEETING SCHEDULE FOR 2008

APPROVED AT THE OCTOBER 12, 2007 BOARD MEETING

AND ALSO A HANDOUT

DRINKING WATER BOARD 2008 MEETING SCHEDULE

DATE	PLACE	TOUR/WORK MEETING	NOTES
January 11, 2008 Salt Lake City		Tour & Board meeting	Tour Metropolitan Water District of Salt Lake and Sandy's Point of the Mountain WTP
February 29, 2008 St. George		Rural Water Conference & Board meeting	
May 9, 2008 To be determined		Tour and Board meeting	To be determined
July 11, 2008 To be determined		Tour and Board meeting	To be determined
September 12, 2008	Price	Utilities meeting & tour Board meeting	Meet with Price River Water Improvement District & Helper
November 14, 2008	Salt Lake City	Combined with the Water Quality Board	

The 2008 SRF/Conservation Committee's 2008 Schedule is in the packet to be approved at the Board meeting today.

The 2008 Board meeting schedule was approved at the October 12, 2007 Board meeting. Here is another copy of the 2008 Board meeting schedule you can use today to review with the SRF/Conservation Committee's 2008 schedule that is in the packet.

Any questions, please let Ken Wilde know.

Thank you!!

AGENDA ITEM 7

APPROVAL OF THE 2008 MEETING SCHEDULES
- Ken Bousfield

b) SRF/CONSERVATION COMMITTEE MEETING SCHEDULE FOR 2008

DRINKING WATER BOARD FINANCIAL ASSISTANCE SUBMITTAL SCHEDULE

2008

APPLICATION CUT-OFF DATE		SRF PACKET MAILING DATE		SRF CONF CALL DATE		DWB PACKET DEADLINE DATE		DWB MEETING DATE
November 5, 2007		December 3, 2007		December 12, 2007 Wed. 9:00 AM		December 27, 2007 Thursday BY NOON		January 11, 2008
December 31, 2007	imately)	January 28, 2008	mately)	February 6, 2008 Wed. 9:00 AM	mately)	February 14, 2008 Thursday BY NOON	imately)	February 29, 2008
March 10, 2008	weeks (approximately)	April 7, 2008	week (approximately)	April 16, 2008 Wed. 9:00 AM	week (approximately)	April 24, 2008 Thursday BY NOON	weeks (approximately)	May 9, 2008
May 12, 2008	4	June 9, 2008	П	June 18, 2008 Wed. 9:00 AM	1	June 26, 2008 Thursday BY NOON	2 .	July 11, 2008
July 14, 2008		August 11, 2008		August 20, 2008 Wed. 9:00 AM		August 28, 2008 Thursday BY NOON		September 12, 2008
September 15, 2008		October 13, 2008		October 22, 2008 Wed. 9:00 AM		October 30, 2008 Thursday BY NOON		November 14, 2008
November 3, 2008		December 1, 2008		December 10, 2008 Wed. 9:00 AM		December 18, 2008 Thursday BY NOON		January 9, 2009

AGENDA ITEM 9

DIRECTORS REPORT

a) RURAL WATER ASSOCIATION OF UTAH'S 2008 ANNUAL CONFERENCE INFORMATION

RURAL WATER ASSOCIATION OF UTAH'S 2008 ANNUAL CONFERENCE

The Rural Water Association of Utah's 2008 Annual Conference will be from February 25, 2008 to February 29, 2008 at the Dixie Center in St. George, Utah. The Board meeting will be on February 29, 2008.

Linda will send you the conference information as soon as she receives it from the Rural Water Association of Utah.

Linda has reserved a block of rooms at the Fairfield Inn by the Dixie Center. Linda will be working with the Fairfield Inn in December/January with names and reservations numbers for each room. Linda will also be working with Shannon, at the Rural Water Association of Utah, to register you for the conference.

When Linda gets the reservations for the hotel and the registration for the Conference completed, she will send you the information. The rooms at the Fairfield Inn are reserved from February 25, to March 1, 2008.

Hopefully, Linda will get the information the end of December and/or in January on the conference and the hotel. Linda will send you the information when she gets it. After you have received the information and have been able to review it, please let Linda know if you need her to change anything on the conference registration and/or reservations for the Fairfield Inn.

Linda has a list of your credit cards to use for reserving hotel/motel rooms:

Anne, Myron, Paul, & Ron:	David: I need to get a card number &
American Express	expiration date
Danny, Petra & Ken: VISA	Ken: Discover Card
Helen & Rick: MasterCard	

Please call Linda and double check with her on your credit card number and expiration date, to make sure she has the correct information.

Dr. Stevens, please call Linda and give her a credit card name, number and expiration date that you want her to use reserving motel rooms.

These cards are password protected and are only used for reserving motel rooms and receiving confirmation numbers. Linda will call you back with the information on the hotel when she gets it completed.

If you have any questions, please call Linda.

Thanks.

AGENDA ITEM 9

DIRECTORS REPORT

b) UTAH WATER USERS' 2008 ANNUAL CONFERENCE

INFORMATION ON CONFERENCE HANDOUT

The 2008 Utah Water Users' Workshop March 10-12, 2008 The Dixie Center – St. George, Utah

GENERAL SESSIONS:

Utah Water Issues – Governor's Office National Water Issues

WORKSHOPS:

State Engineer - Current Utah Water Rights Issues

Legal Aspects of Utah Water

Legislative Update

Irrigation Company Liability Issues

Partial Right Owner Approval for Change Application Filing

Valuing Water Based on Depletion

Adjudication - Solving Water Management Problems

GIS-Based Water Resource Management Tools

NRCS Conservation Innovation Grant Program

Profitability and Efficiency through Irrigation Water Management

Huntington Cleveland Salinity Control Project Update

Great Salt Lake Elevations - Past, Present, and Future

Lake Powell Pipeline Progress Report

Colorado River Issues

Drought in Utah: Learning from the Past - Preparing for the Future

Snake Valley Issues

Utah Lake Commission

Upper Enterprise Reservoir

Jordanelle Hydroelectric Power Project

Water 2025 Project Status

A.V. Watkins Dam (Willard Bay), Scofield, and Deer Creek Dam Modifications

Climate Change and Implications for Western States Water

Water Supply Outlook

New Developments, New Sources, and Associate Water Systems: What You Should Know

The Snake Valley Hydrologic Basin - Recent Scientific Assessments

Quagga Mussel Threat to Utah

Provo River Stream Restoration

Nonpoint Source Funding Program Priorities - New grants

New Water Reuse Rulemaking

"Advice You Can Drink"

What's New in Water Quality

Cutler Reservoir & Bear River TMDL/Pollution Reduction Plan

Upper Sevier River Watershed Restoration

Small Reservoir Flushing Management Practices

"Creating a Vision for Your Life"

Workshop Registration

Through Wednesday, February 13, 2008, registration will be \$75 including one banquet ticket (\$60 without a banquet ticket): thereafter, registration will be \$80 without a banquet ticket and can be purchased at the Workshop. You can purchase extra banquet tickets at a discounted price of \$20. Note: extra banquet tickets will be available ONLY with pre-registration. There will be a surcharge on all refunds prior to Wednesday, February 13, 2008, after which no refunds will be made. No Credit Cards or Purchase Orders accepted. Pre-registration fees will not be accepted after February 13, 2008. Questions - call Bob Hill at 435-797-2791 or fax 453-797-1248.

MAKE CHECKS PAYABLE TO and return form by February 13, 2008 to:

Utah Water Users Workshop c/o R.W. Hill Utah State University 4105 Old Main Hill Logan UT 84322-4105

	208001, 010,0	22 1102		
Name:		Phone:		
Organization: E-mail:				
Address:				
City:	State:	Zip <u>:</u>		
PRE-REGISTRATION- INC	LUDES ONE banquet tic	ket.		\$75
EXTRA BANQUET TICKET	T(S) – before February 13	, 2008.		\$20
PRE-REGISTRATION FEE	- DOES NOT include a b	anquet ticket.		\$60
Guest Program. (may also reg Guest Name:	ister at the workshop) - Fo	ebruary 13, 2008, or later		\$10
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Golf Tournament Form

March 10, 2008, 8:30 a.m., Coral Canyon Golf Course, Scramble Format Shotgun start, \$90 includes course fee, cart rental, lunch and prizes.

Name:	Phone:
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E-mail:	

Please send a SEPARATE check or money order payable to Kent Jones for the amount of \$90 (includes course fee, cart rental, lunch and prizes) plus 18 hole score or handicap for each participant by February 22, 2008 to:

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UtahState UNIVERSITY AGENDA ITEM 10

NEWS ARTICLES

http://www.sltrib.com

Kane County OKs leasing of its water

By Mark Havnes The Salt Lake Tribune Salt Lake Tribune

Article Last Updated: 11/09/2007 01:16:18 AM MST

KANAB - Use it or lose it.

That is the reason the Kane County Water Conservancy District decided to lease almost 30,000 acre feet of water a year to a company that has plans for Utah's first nuclear power generating project.

About 25 people showed up at the district's monthly meeting in Kanab on Thursday night to hear what went into the decision to lease the water to Transition Power Development, LLC, which wants to help build at least two 1,500 megawatt nuclear power plants, probably in eastern Utah's Emery County.

The district received the water from the defunct Andalex coal project, which had been planned for the county but died with the creation of the Grand Staircase-Escalante National Monument in 1996.

After a \$10,000 payment, the district is scheduled to receive \$100,000 a year until the plant is built, at which time the annual payment for the water, which will be drawn from the Green River, will jump to \$1 million a year.

District executive director and legislator, Mike Noel, told the group that if the district did not come up with a legitimate use for the water - which could service close to 30,000 households a year - it would lose the rights to the valuable commodity.

When a member of the public asked why the water could not be drawn for use by county residents, Noel explained that the district can't justify how it would use such a huge quantity of water.

Instead, revenue from the nuclear deal will be a source of Kane County's funding for the proposed Lake Powell pipeline project that allocates a more manageable 10,000 acre feet of water a year to the county, with larger amounts going to Washington and Iron counties.

District board member Tony Chelewski explained the issue faced by the district in rancher terms.

"If I drop 1,000 bales of hay in your yard and you don't have any [livestock], I'm going to come get," said Chelewski. "It's the same with water rights. Use it or lose it."

Several people at the meeting were upset with the county getting involved in promoting nuclear power.

Joseph Woods, who called water the "most valuable commodity on Earth," was upset the water would facilitate the creation of nuclear waste in the state that fought the Goshute Tribe over a proposal to store the same type of waste on its reservation in western Utah.

"We stopped that and now we want to do this for our grandchildren to live with?' Woods asked.

Noel said while he is against storing nuclear waste in Utah from other states he thought it would be disingenuous to say Utah could not store waste produced by the state in the state.

"We'll take care of it," he said.

Noel said that the water district would not be responsible for costs associated with delivering the water to the plant sites or with environmental studies.

When asked to whom Transition planned to sell the permits for construction and operations of the nuclear plants if granted, Noel said there are no clients on the horizon.

mhavnes@sltrib.com

Morning News

Bush loses water fight in 1st veto override

By David M. Herszenhorn New York Times News Service

Published: November 9, 2007

WASHINGTON — The Senate on Thursday dealt President Bush the first veto override of his presidency, with a resounding bipartisan vote to adopt a \$23.2 billion water resources bill that authorizes popular projects across the country.

The 79-14 vote sent a clear signal that the Democrats in control of Congress planned to test the power of the White House on other fronts, and it gave Republicans a chance to show distance from an unpopular president heading into a tough election year.

Utah's two Republican senators, Orrin Hatch and Bob Bennett, voted for the override.

"We have said today, as a Congress to this president, you can't just keep rolling over us like this," said Sen. Barbara Boxer, D-Calif., who led the charge on the water bill as chairwoman of the Environment and Public Works Committee.

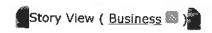
"You can't make everything a fight because we'll see it through," Boxer added. "And that's a big deal. It isn't easy for members of the other side to stand up to a president in their own party. I know. I know what that's like. It's hard."

If the Democrats have their way, Republicans will likely find themselves in that difficult position repeatedly in the next few weeks as Congress looks to go toe to toe with the administration on a series of budget bills, most of which Bush has threatened to veto.

The water bill adopted by the Senate authorizes popular projects in states across the country, including hurricane recovery efforts in Louisiana, environmental restoration in the Florida Everglades and flood control in California. But the bill does not actually appropriate money for the projects, which must be done in spending bills.

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GSL's new plans topic of meetings

Wednesday, November 7, 2007

By Jordan Muhlestein Standard-Examiner staff

Minerals operation to be expanded

OGDEN -- The US Army Corps of Engineers plans today to hold the first of three meetings to allow the public to learn about a proposed expansion of the Great Salt Lake Minerals operation in western Weber County.

The expansion would add about 33,000 acres to the facility, allowing for three new solar evaporative ponds used in the production of sulfate of potash, a potassium fertilizer used on crops such as fruit, vegetables and tree nuts.

The corps is sponsoring the meetings as part of the preparation of a draft environmental impact statement on the expansion, according to the corps' notice of intent for the statement.

The first meeting is scheduled for 5-9 p.m. today at South Davis Jr. High School, 298 W. 2600 South, Bountiful. The second meeting is set for 5-9 p.m. Thursday at the Ogden Nature Center, 966 W. 12th Street, Ogden. A third meeting will be Nov. 14 in Salt Lake City.

Each meeting will allow people to learn about and make comments on the proposed expansion.

The environmental impact statement will address impacts to wildlife, water quality, water levels, transportation and cultural resources in the area of the proposed expansion, says the notice of intent.

The draft environmental impact statement is scheduled for release in October 2008.

Peggy Landon, director of corporate communications for Great Salt Lake Minerals, said the company has applied to the state for a lease on the land, but would be unable to do any developing until the impact study is finished.

The proposed evaporation ponds include an 8,000-acre pond in the Bear River Bay on the eastern side of the lake, an 18,000-acre pond south of Dolphin Island on the west side, and a 7,000-acre pond around Clyman Bay on the western shore.

Landon said the expansion would add another 100,000 tons annually to the company's current production of 450,000 tons of sulfate of potash.

She said the company is committed to expanding responsibly and to continuing to operate in an environmentally responsible manner.

"We really share the common goal that everyone has of keeping the Great Salt Lake clean," Landon said.

Some environmental groups, including the Friends of the Great Salt Lake and the Western Hemisphere Shorebird Reserve Network, have protested the expansion proposal.

In a letter to Utah Department of Natural Resources Executive Director Mike Styler, Marshall P. Jones, chair of the Western Hemisphere Shorebird Reserve Network Hemispheric Council, said the GSL expansion would adversely affect biodiversity in the area, particularly with several species of birds, including Snow Plover, two species of phalaropes and american avocets.

Landon said the environmental impact study will evaluate any impacts that the proposed project would have, and the company is dedicated to working with all concerned parties about the impacts.

Great Salt Lake Minerals is a subsidiary of Kansas-based Compass Minerals International Inc.

Anyone with questions about the expansion and the draft environmental impact statement can call the Corps project manager, Jason Gipson, 295-8380 ext. 14, or e-mail jason.a.gipson@usace.army.mil. Please mention the project identification number 200100121 in the e-mail.

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American Fork
Horse club may lose facilities to irrigation pond
By Steve Gehrke
The Salt Lake Tribune
Salt Lake Tribune

Article Last Updated:11/07/2007 02:13:35 AM MST

American Fork might have to sacrifice some of its rural flare to make way for an irrigation pond and, possibly, homes,

Mayor Heber Thompson recently sent a letter to members of the American Fork Riding Club, giving them until Jan. 1 to clear their livestock and personal property off the city's Tri-City Recreation land that abuts the Fox Hollow Golf Course.

The city wants to replace the stables and exercise equipment with a new pond - a crucial element in the Utah County community's coming pressurized irrigation system.

But club members want American Fork to find a spot that won't leave them high and dry. They don't mind if the city uses part of the land, but the riding club's secretary-treasurer Chris Mitchell is concerned the city will also use part of that property to build golf-course-adjacent homes.

Meanwhile, Thompson says there's no place better for the pond-

The elevation on that city-owned land provides for easy, cost-effective engineering, he said, adding that rumors of home-building are based on off-the-cuff remarks. The city, he said, has no plans to develop the area.

"We're trying to help the club, but we really can't compromise where this reservoir is going to be," Thompson said. "And I've gotten a sense from the [City] Council that they don't think a recreation facility is very good use on land that's so valuable for other purposes."

The riding group says it has kept up its \$1 per year lease - except when its payment was refused in 2003 - so the city shouldn't be taking its land. Thompson says the lease expired several years ago, and the group has been operating under a "gentleman's agreement"

Amy Carter and her three kids regularly practice barrel racing and riding, and her husband, Jeron, is the president of the riding club

Her family lives in neighboring Lehi, and she says several owners of the 40-plus horses boarded at the stables will have nowhere to turn if they're forced out

"The riding club built everything there. We put all our own money and time into that place," she says. "All we've known growing up is having horses, and that's all my kids have ever known. We can't afford property anywhere else... because prices are so outrageous."

Thompson says the city is in talks with Utah County to supply 12 stables at what he calls a nicer, more modern indoor-outdoor facility near the American Fork-Lehi boundary. Not such a sweet deal, the club says, considering they have 40 stalls at the current location.

"I guess he wants us all to draw straws for those 12," says Mitchell.

Steve Berry, a riding-club member and horse owner, says the issue is simply a case of a money-hungry city trying to claim more cash any way it can. He fears American Fork's rural nature is being overtaken by growth.

"There's more to life than just seeing how much money you can put in the city's pockets. The residents need places like this to have fun and recreate," Berry said.

"All over, the city builds parks for people, but to those people with horses, they're saying, 'You're not welcome anymore,' "
sgehrke@sltrib.com

What's next

American Fork City will hold a groundbreaking at about 3:30 p.m. Friday for its pressurized irrigation system near 1500 North and 200 East. The city will hold a public open house Nov. 16, from 5 to 7 p.m. at the American Fork Library, 64 S. 100 East.

http://www.sitrib.com

The perfect drought: Water shortages demand efficiency, new thinking Tribune Editorial Salt Lake Tribune

Article Last Updated:11/05/2007 07:35:42 PM MST

Water. Without it, there is no life.

That's not news in the arid West. What is news is that the dual pressures of global warming and population growth are placing severe stress on fresh water supplies across the United States. Both the Southwest and the Southeast are enduring droughts.

If Americans do not get much smarter about how we use fresh water - and fast - the nation could face perpetual thirst that, in turn, could cause economic and population dislocation.

Don't buy that? Check out the Oct. 21 issue of *The New York Times Magazine*. The cover story, titled "The Perfect Drought," by Jon Gertner, is an excellent primer on the West's water dilemma.

Utahns will be familiar with the information there about our dependence on the declining Rocky Mountain snowpack, the effect of drier winters on the stream flows in the Colorado River, the bathtub rings in Lake Powell and Lake Mead, the battle over water in Snake Valley as Las Vegas plans to tap groundwater in east central Nevada and pipe it south

What they may not know, however, is that in addition to conserving fresh water by tearing out lawns and replacing them with drought-resistant plants and installing low-flow toilets, we also need to rethink how we use potable water. It doesn't make much sense to pour it on our yards and flush it down our toilets. We could use recycled water for that.

We also must rethink allocating huge quantities of water to farming when land-use patterns in the urban West have changed so drastically,

If you're thinking that we can outflank climate change by building more dams on places like the Bear River, you might want to think again. Storing water in surface reservoirs may not be as efficient as storing it underground, where evaporation can't steal it.

In any case, it's going to require a host of different strategies for Utah to feed and water its growing population, and we're going to have to think outside the Bureau of Reclamation's 20th-century toolbox to get the job done.

To this end, Congressman Jim Matheson has introduced a bill instructing the Environmental Protection Agency to work with nongovernmental agencies on research to increase water use efficiency and conservation.

That's only a drop in the bucket, but it's a start,

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Kansas mineral company

Greens: Plan bad for Great Salt Lake birds

Fourteen groups protest plant-expansion idea; an environmental study is in the works

By Patty Henetz The Salt Lake Tribune Salt Lake Tribune

Article Last Updated:11/06/2007 01:01:05 AM MST

Environmental organizations are protesting a proposal to open thousands of acres of Great Salt Lake shoreline to a Kansas minerals company that will undergo an environmental study by the U.S. Army Corps of Engineers.

The plan would allow Great Salt Lake Minerals Corp. to expand its business on 33,000 acres adjacent to its current site. The Utah Division of Forestry, Fire and State Lands already has approved a 10-year lease on the property despite concerns for the lake, one of the globe's most important stops for migratory shorebirds.

The July lease immediately ran into opposition from 14 conservation groups, whose members say the plan would imperil 5 million birds and 250 species that live in or around the lake, including pelicans, gulls, peregrine falcons, Wilson's phalaropes and snowy plovers.

Great Salt Lake Minerals of Overland, Kan, wants to build three solar evaporation ponds on 33,000 acres. The project would include an 8,000-acre pond on the east side of the Great Salt Lake in the Bear River Bay.

The company also would build two new solar ponds on the west side of the lake: an 18,000-acre Dolphin Island expansion pond and a 7,000-acre pond at the southern end of Clyman Bay between the Union Pacific Railway and several existing ponds.

The operations would require diesel pumps to transport brine. More than 14,000 cubic yards of fill would be discharged into Bear River Bay and Cayman Bay to create dikes. Approval would allow the company to expand its operation to an area the size of Salt Lake City, about 119 square miles, or 7 percent to 13 percent of the lake's surface depending on water-level cycles.

Company spokeswoman Peggy Landon says the corporation plans to spend \$25 million over three years to increase capacity at the plant, which processes sulfate of potash - an organic potassium fertilizer - into fertilizer. The company also creates salt products and claims the expansion is needed to avoid importing raw potassium from other sources.

The protesting organizations include the Utah Audubon Council, Friends of the Great Salt Lake, Utah chapter of the Sierra Club, League of Women Voters, The Nature Conservancy of Utah, Utah Airboat Association, Utah Rivers Council and Utah Waterfowl Association

The Western Hemisphere Shorebird Reserve Network, a multinational conservation coalition, disputed a Forestry Division statement that the birds would adapt to the expansion.

In a September letter to Department of Natural Resources executive director Mike Styler, Marshall P. Jones, Jr., the Shorebird Reserve Network's hemispheric chairman, said such an assumption defied current scientific understanding of the breeding and ecology of migrant birds

The Army Corps of Engineers expects to complete a draft EIS by fall 2008

phenetz@sltrib.com

The U.S. Army Corps of Engineers will hold three public meetings before preparing a draft environmental impact study of an expansion proposal by Great Salt Lake Minerals Corp. of Overland, Kan. The minerals company, which makes fertilizer and salt products, wants to expand onto 33,000 acres of Great Salt Lake shoreline in Box Elder County. The meetings will be from 5 p.m. to 9 p.m.

- * Wednesday: South Davis Junior High School, 298 W_ 2600 South, Bountiful
- * Thursday: Ogden Nature Center, 966 W. 12th Street, Ogden
- * Nov. 14: Airport Inn Hotel, 2333 W. North Temple, Salt Lake City
- * For more information: www.epa.gov/fedrgstr/EPA-IMPACT/ 2007/November/Day-01/i5437,htm

http://www.sltrib.com

Plan manages Colorado River in drought

SLC hydrologist says the arrangement means 'everyone shares the pain'

By Patty Henetz The Salt Lake Tribune Salt Lake Tribune

Article Last Updated:11/03/2007 12:25:59 AM MDT

The Law of the River has gotten another adjustment with a federal plan to manage the Colorado River during dry years.

The U.S. Bureau of Reclamation on Friday released a final environmental impact study that could be a way to avoid renegotiating an 85-year-old agreement based on inflated notions of how much water really is in the river.

Or, according to river advocates, the plan that will govern use and allocation through 2026 could be a way to ensure none of the seven Western states that share the river ever has enough water.

The study's conclusions drew from a consensus decision by the seven Western states that depend on the Colorado River on what to do during low-water years, officials said.

"This is an arrangement for operating the river where everyone shares the pain when you're going through a drought time," said Tom Ryan, a Bureau of Reclamation hydrologist in Salt Lake City.

The Bureau of Reclamation began the environmental study in 1999. Since then, the river basin has experienced the worst drought in 100 years of recorded history, and its two largest reservoirs - Lake Powell and Lake Mead - have gone from being nearly full to just over half-full.

The report, expected to be final in December, plans how the upper basin states - Utah, Colorado, Wyoming and New Mexico - will respond to demand from California, Arizona and Nevada, the lower basin states, which have more people and older water rights.

While the Bureau of Reclamation implicitly acknowledges that the 1922 Colorado River Compact is based on estimates from unusually well years and its report assumes ongoing shortages, it doesn't suggest any changes to the agreement.

"Nobody wants to renegotiate the compact. The feeling is the compact provides an adequate framework for managing the river," Ryan said.

But to John Weisheit, conservation director for the non-profit organization Living Rivers, the bureau's solution entrenches wastefulness and refuses to acknowledge ways to store water more effectively.

"We're extremely disappointed," he said. "Now we're playing this balancing act between two reservoirs that climate change is going to keep empty."

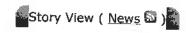
Living Rivers has long campaigned to decommission the Glen Canyon dam and rely on Lake Mead for surface water storage. The organization also believes using aquifers in Arizona and California to store water underground would be a better solution. But the main problem with the bureau's solution is there's not enough water, which speeds destruction of the river ecosystem, Weisheit said.

phenetz@sltrib.com

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Ogden pumps \$51.6M plan

Friday, November 2, 2007

By Scott Schwebke Standard-Examiner staff sschwebke@standard.net

City council hopes to OK scenario this year for water system improvements

OGDEN -- After reviewing a flood of data, the city council decided Thursday night to pursue a scenario that includes \$51.6 million in financing to upgrade Ogden's antiquated water system.

The scenario was among three options considered by the council during a work session to review results of a \$67,000 draft study completed by Lewis, Young, Robertson and Burningham, a Salt Lake City consulting firm.

The city council plans to present the scenario to the public during a meeting later this month and may adopt the option by the end of the year.

The scenario calls for the issuance of \$51.6 million in bonds next year to complete all necessary water distribution and sewer projects, purchase equipment to correct water odor and taste problems and partially fund stormwater projects.

It does not provide any funding to repair the city's water treatment plant.

Under the scenario, residents without secondary water who use 1,500 gallons would see their monthly water bills increase from \$8.97 to \$13.09 during the first year.

Bills for residents who use 6,500 gallons a month would increase from \$14.35 to \$19.29 a month, while rates for those who use 30,500 gallons would jump from \$48.07 to \$61.38 a month.

John Patterson, the city's chief administrative officer, said while the \$51.6 million price tag for the scenario is a "huge chunk" of money, it would help address some of the city's most critical water infrastructure problems.

"It's a good start," he said. "It moves us forward."

Councilman Rick Safsten said the option does not include "any kind of luxury," but he seemed satisfied it would helping alleviate some pressing infrastructure problems.

The option was chosen by the city council over another proposal that called for \$98.2 million in bonding in 2008 to complete all of the city's water projects, including repairs at the treatment plant.

The council also decided against a third scenario that called for \$51.6 million in bonding next year and the issuance of \$46.6 million in bonds in 2011 to upgrade the plant.

The study presented to the city council states that neither the city's water, sanitary sewer nor storm sewer rates produce

enough revenue to sustain its infrastructure.

The rates also do not generate enough revenue to pay for the daily costs of producing water and sewer services for customers, the study says.

The city has borrowed from other funds to repair broken systems and pay for operational costs in its sewer fund, the study states.

Insufficient monetary reserves has resulted in the city using "stopgap measures" to address some of its infrastructure needs, according to the report.

"This practice has caused a difficult cycle in which structures need replacement more often," the report says, "thereby costing the city more money in the long run."

Story Advertisement

Nation's roadless rivers are in serious jeopardy

By Rebecca Giddens and Mark Singleton

McClatchy-Tribune

Article Last Updated: 11/01/2007 10:26:06 PM MDT

Paddling a river is an ancient activity - possibly the first human mode of transportation not involving putting one foot in front of the other. Yet while the world has grown since people first took to the water, there are still some places in our country where you can dip a paddle into a pristine river, feel the tug of the current and silently glide downstream. And thanks to the roadless areas found in our national forests, there are more such havens than most would expect.

Unfortunately, roadless areas occupy a legal netherworld where they are neither easily developed nor really protected. Even worse, efforts to weaken protections for these last undeveloped places, by the Washington allies of mining and logging interests, have put these regions in serious jeopardy. Leaders in Congress, however, have kicked off a renewed effort to protect such natural treasures once and for all.

Paddling remote rivers and waterways - the original highways used to explore our great nation - offers a unique way to experience our national forests and some of the last vestiges of wild and unspoiled lands in America. Roadless areas are home to some of the most scenic and challenging whitewater around, as well as family-friendly rivers and lakes.

Roadless areas, frequently located at lower elevations than wilderness areas, provide accessible backcountry recreational opportunities for millions of Americans. For example, roadless areas in North Carolina's Smokey Mountains, the White Mountains of New Hampshire and West Virginia's Highlands provide world-class paddling opportunities. Out west, roadless areas preserve the water quality for headwater areas of the famous "River of No Return," Idaho's Salmon River.

One of the premier rafting and kayaking rivers in the world, the Salmon River, is not only a magnet for paddlers but home to 70 percent of all salmon and steelhead habitat in the entire Columbia River Basin. And in the Southwest, roadless areas in the Sequoia National Forest safeguard the headwaters of the Kern River - an important recreation spot for thousands of visitors each year and an invaluable source of clean drinking water for millions of Californians.

But the ability for future generations to enjoy the paddling, rafting, fishing and many other such backcountry recreational opportunities in these areas lies in serious jeopardy.

Over the last seven years, cynical partisan politics has taken priority over protecting our roadless forests. In California, despite promises to Gov. Arnold Schwarzenegger to halt new roadbuilding, the Forest Service recently announced new management plans for the Padres, Angeles, Cleveland and San Bernardino forests that would open the forests to new roadbuilding.

A similar story can be found in Idaho, where mining interests have employed loopholes to clear the way for phosphate exploration and mining, devastating roadless areas within the Caribou-Targhee National Forest. This project could replace once pristine backcountry with toxic settling ponds and strip mines - hardly a spot for a family trip down the river.

But now, members of Congress from both sides of the aisle are working together to ensure that America's natural heritage will be preserved for future generations of paddlers, bikers, climbers, backcountry skiers and hikers.

This year, more than 140 members of Congress, Democrats and Republicans alike, joined together to introduce legislation that would provide permanent protection for 58.5 million acres of pristine forestland in 39 states. This bipartisan initiative in the House was joined by a companion measure in the Senate, introduced with the support of 18 original co-sponsors.

Constructing new roads in wild forests, where the very absence of roads is their defining resource value, doesn't make sense. Roughly 85 percent of all the revenue generated from our national forests comes from recreation activities. Yet, while a gym or city park can easily be rebuilt or repaired, once a roadless area is opened to logging, mining and road building, the damage can never be undone.

Responsible management of America's natural heritage is a value that cuts across both sides of the political aisle and unites us in a shared legacy of stewardship. It's time to protect these last vestiges of our nation's past before it's too late. The joy of paddling along a pristine river, far from any automobiles or other reminders of modern life in America, is an experience that we should not allow to become extinct.

* REBECCA GIDDENS lives in Kernville, Calif. She won the silver medal in slalom kayaking at the 2004 Summer Olympics. Readers may send her e-mail at RebeccaGiddenses.com.

MARK SINGLETON is the executive director of American Whitewater. Readers may send him e-mail at markamwhitewater.org. They wrote this for National Environmental Trust.

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The Salt Lake Tribune

WEDNESDAY, October 31, 2007

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Matheson's water bill gets good word in pand

Official says measure is vehicle to make water saving a national issue

By Thomas Burn The Salt Lake Tribune

Article Last Updated: 10/31/2007 01:44:22 AM MDT

WASHINGTON - Southwestern Utah is so arid, a water official joked, even the desert tortoises carry canteens.

That's why it's important to promote water conservation and to make such a program national in scope, Ron Thompson, general manager of the Washington County Conservancy District, testified before Congress on Tuesday.

And the vehicle for doing that, Thompson said, is a bill sponsored by Rep. Jim Matheson, a Utah Democrat whose district includes many of Utah's desert areas.

Water is vital to civilization, Thompson said. "It is in fact the lubricant that allows our economy to thrive "

Matheson's bill, which got its first hearing before a subpanel of the House Science and Technology Committee, would direct the Environmental Protection Agency to launch a research, development and demonstrati water-use efficiency. It also says the EPA should collect and share information on tec

Thompson says that's key to preventing waste out of a dwindling natural resource Earth's surface is covered with water, less than 3 percent is fresh water and less than . for human use.

"In the long-term to be successful, you really have to educate," Thompson said. "Pe they're educated."

Other panelists spoke of different techniques for saving water, from using rain-water

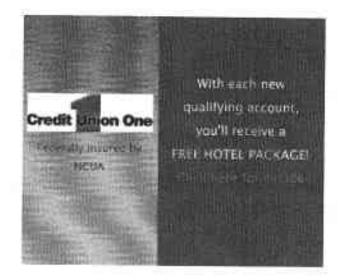
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capturing water from oil a The latter isn't part of the 1 would look into it.



Jim Math Lake Tril

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Tim certainly open to so In Thompson's case, Wa fastest growing population more than doubled in size in the past 11 years, the co use has decreased by 24 po hoping to achieve an addit by setting new conservation

Matheson's bill will nov committee.

tburr@sltrib.com

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Article published Oct 31, 2007

Water focus of new bill

By KATIE OLIVERI koliveri@thespectrum.com

ST. GEORGE - Rep. Jim Matheson, D-Utah, has introduced legislation regarding water conservation and on Tuesday, the Energy and Environment Subcommittee of the House Science and Technology Committee conducted a hearing to receive testimony on the bill.

Witnesses included Ron Thompson, general manager of the Washington County Water Conservancy District.

The Water-Use Efficiency and Conservation Research Act calls on the Environmental Protection Agency to work with non-governmental partners to achieve a national goal of water conservation, according to a press release from Matheson's office.

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The program would collect and publish information on current water-use efficiency technologies, according to the release. The bill also requires the ORD to carry out at least four demonstration projects for use in a model home and a model commercial building.

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Second, Matheson said, it creates sort of a clearinghouse for people to share information in one place, where all local communities can share what they're doing and learn from each other.

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"We've seen a lot of strides in conservation because of better technology," Thompson said.

He said Washington County has had about a 24 percent reduction per capita in water use since 1995.

Thompson also said the Washington County Water Conservancy District was the first district in Utah that adopted a water conservation plan and also the first Utah district that entered into a partnership with the EPA for the WaterSense program.

"We all have a role to play in water conservation," he said.

Matheson's bill, Thompson said, adds more money into research.

Matheson, who attended Tuesday's hearing, said the science committee will look to pass the bill in February.

"I think people are real enthusiastic about the bill," Matheson said of the witnesses at the hearing and of the science committee. "I felt really good about the hearing."

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Ogden Residents Complain About Smell, Taste of Tap Water October 29, 2007



Whit Johnson Reporting

It has a foul smell and tastes disgusting, at least during a few months of the year. That's the complaint from Ogden residents regarding their tap water. Mother Nature may be to blame, and the city is looking for solutions

It's fresh tap water straight from the western edge of the Rocky Mountains. Despite the lush landscape from which it originates, residents say it's just stinky.

For several months of the year, the drinking water in Ogden has a flavor you can't quite put your palate on

Resident Bruce Gardiner compares it to "dirt? Dirt maybe. I don't know."

The taste is so bad Gardiner won't drink it from the faucet.

"I always go to the fridge, and I've got a filter on that," he said

He is not alone.

Ogden City Engineer Kimball Wallace said, "This year we probably had ten times the normal number of phone calls."

Wallace says during the months of August and September complaints from the public were higher than ever

"We're anxious to resolve the odor and taste problems," he said.

So what's causing the stink and awful taste? Experts say it's low water levels and algae built up at Pineview Reservoir.

"If you could have a little more snow pack, that would resolve the problem," Wallace said, "If we had less 100-degree days, we wouldn't have a problem with the high temperature and the turnover in our algae. So this is proportionate to our weather."

Ogden is exploring several options.

"We have the ability to put chemicals into our water treatment plant that can take out that odor and taste, but they're very expensive," Wallace said.

Expensive, but for some it might just be worth it.

Ogden City Council is considering an upgrade to its utilities system that would cost about \$50 million. That would include the cost to address the odor and flavor

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issues

City officials insist most months of the year Ogden's water actually tastes pretty good. They also say the water poses absolutely no threat to the public health.



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TUESDAY, October 30, 2007

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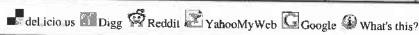
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Used water

Public Forum Letter

Article Last Updated: 10/29/2007 01:45:31 AM MDT

It is estimated that Utah's population will double by the year 2050, and the demand for clean water will increase

As part of the conservation effort, government officials need to put more focus and resources on the reuse of reclaimed water wastewater) Rcuse can help the state meet the water supply and wastewater management demands of a growing population.

Reuse helps conserve potable water supplies since the reclaimed water is used in place of potable water for certain purposes, watering golf courses. More and more communities across the country are turning to reuse of reclaimed water as a way to mana water needs:

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koliveri@thespectrum.com

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Article published Oct 28, 2007
Water key in area elections
RYAN DIONNE
rdionne@thespectrum.com

CEDAR CITY - It's no surprise to Southern Utah residents that water is a pretty big deal.

Lack of it. Conserving it. Buying it. Wasting it. It all impacts the community

Water is one of the most abundant resources on the planet, but not in this part of the world.

As the area grows, residents have asserted that city council members must look to the future and discuss ways to keep those living in the Cedar City area from using more water than the area can supply.

Whether it's the Lake Powell Pipeline project, more hefty conservation or reuse of available water sources, Cedar City Council candidates were asked to share their thoughts on these and other water conservation and usage issues.

These are the responses from Dale Brinkerhoff, Rich Gillette, Raymond Green, Kasey Musto, Georgia Beth Thompson and Steve Wood listed in alphabetical order by last name.

TS & DN: What should the city council's role be regarding water?

Brinkerhoff:

"Everything in Cedar City revolves around water. There isn't anything more important to Cedar than water, so the city's role is to promote, develop and maintain an adequate supply of clean drinking water."

Gillette:

"They just need to be directing staff and keeping (updated on) new water rights that are available. We just gotta stay ahead of the curve with the need."

Green:

"The city council ought to make sure we have conservation procedures in place. The council also should look into all ways and places to store water and increase reclamation."

Musto:

"I think that they should be the ones to begin the process to really push the process to look into ways to reuse, recycle and reclaim our water. Water reclamation facilities - they need to look into that."

Thompson:

"I think we ought to be working with city staff and others to make sure we have adequate water for growth in the community." We also need to find programs and ways to be more judicious with water usage.

Wood:

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I think buying or leasing water rights from farmers in exchange for letting them use recycled water after it's treated solves short-term goals. "I think it's a win-win both ways."

TS & DN:

How are you prepared to deal with that?

Brinkerhoff:

"We don't have water to waste, but we have an adequate supply of water at this time." By continuing to develop wells before we need them will provide enough water for growth as long as the wells don't become dry.

Gillette:

"Investigate the need and forecast the need. You do that by having the right kind of people around you." Figuring out how to reuse the water and stretch our rights more than we do now is key.

Green:

"One of the key things that has to be done is to take a look at the general plan and the land use element of the general plan and determine what is the max build out." The potential future population will then determine how much water is needed.

Musto:

"They should look to other areas throughout the United States that have similar water issues." Then use those as an example of how we can reuse, recycle and reclaim our water.

Thompson:

Once we find more sources of water and find which works best for Cedar City, it's a matter of evaluating which is best and figuring out where to go from there. Now, too many areas are drying up without being recharged.

Wood:

I think the city would have to put some trust in the private company doing the grey water study because they've done it in other communities and I think it would be the best option both financially and otherwise.

TS & DN:

How should it be paid for?

Brinkerhoff:

All customers should have to pay for it, and they are now. Impact fees pay for new water and taxes help pay for maintenance. "It's adequate until such time that we have to make a decision on the pipeline. For the moment we're where we oughta be."

Gillette:

"Whoever's using the water needs to pay for (the rights). "The city collects fees every time somebody connects to the system. There's also a water impact fee every time a new home is built."

Green:

Impact fees are only used for new water infrastructure, and now that construction growth has slowed, impact fee revenue will be less, "Your

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options are to slow down the rate of growth or increase taxes to make it happen - which we don't want."

Musto:

The city should research new ways to reclaim water. "They do have a water plan, and in that water plan there should be some funds set aside specifically for research and development."

Thompson:

How it's paid for depends on what route the city decides to take on the issue. Bonds, fees and taxes are an option, but the city should look for support from grants and other government agencies for help too.

Wood:

"If we have as much growth as we're gonna have ... you're gonna pay for it with, frankly, bonding or impact fees. I think what we don't need in this community ... is increases in property taxes."

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Biologists Study Fish in the Provo River October 15, 2007



Sam Penrod Reporting

Fish in the Provo River had a shock today. The Division of Wildlife Resources uses electrical shocks to measure how many fish are in the river and to check how healthy they are.

The Provo River remains one of the most popular fishing areas in the state, attracting people from all over to enjoy the its beauty. "This is one of the most popular stream fisheries in the state. If you look at the number of anglers per mile, it's as high as any river I could find in the West," said Richard Hepworth, aquatics biologist with DWR.

And to make sure there are plenty of fish for anglers to catch, the state DWR takes samples in the river. To do this, the biologists send an electrical current into nets, which helps them catch the fish and examine them. "It creates an electric field in the water. That temporarily stuns the fish, [and] gives us the opportunity to net them up until we can weigh and measure them and release them back into the river," Hepworth explained.

KSL News was with the biologists as they took two samples, one just below the Jordanelle Dam and the other along the river in Midway.

"This process helps to answer several questions, from how many fish are in the river, are they healthy, what size are they, are there enough, what types of species are they seeing, and is there a good balance of species in the river and fish sizes?" Hepworth said.

It's the kind of information that anglers who fish the river want to know too. "I'd be curious to know what kind of fish, how big they are. I sometimes catch two to three fish when I come," angler Kristin Egan said.

In all, the biologists are encouraged by what they found: some really good-sized fish. They will analyze the data collected today and then be able to come up with some population estimates for the river.



The Salt Lake Tribune

http://www.sltrib.com

Rate hike to leave bitter taste in Ogden By Kristen Moulton The Salt Lake Tribune Salt Lake Tribune

Article Last Updated:10/24/2007 12:58:33 AM MDT

OGDEN - Ogden residents will be asked to swallow huge increases in their water rates next year, but it's possible one of their biggest complaints - that the water stinks and tastes bad during summer - may not get fixed anytime soon.

The City Council debated Tuesday night the ramifications of holding up the Water Horizons Rate Study while city engineers study what it would take to fix problems at the plant that filters water from Pineview Reservoir.

"The state may say it's safe, but it's unacceptable. It stinks," It literally stinks," said council member Amy Wicks. "It smells like taking the lid off my aquatiom."

The council embarked on its Water Horizons project, with a heavy emphasis on getting community buy-in, last summer, and had hoped to finish the study by the end of the year.

The study is to identify the most pressing needs in Ogden's antiquated water, sewer and waste-water systems, come up a price rag and figure out how much to raise rates.

That timetable is now in jeopardy because the city's public works and water engineers are just beginning to research ways to fix the filtration system.

Replacing the filtration plant and pipe to Ogden - a possible \$46 million expense - wasn't on the list of projects brought to the table by city administrators,

But citizens are complaining about the bad taste and smell of the water and the low water pressure, Wicks said.

The council decided Tuesday to keep rate study consultants working but held off setting dates for future public meetings.

Mark Johnson, the city's management services director, said the administration considered the filtration plant problems to be less pressing than other infrastructure needs.

This past summer's stinky water was an anomaly that had to do with scant summer rains and the fact that Willard Bay Reservoir was closed, pushing more boaters to Pineview Reservoir, he said.

Mayor Matthew Godfrey has called the council's rate study as unnecessary.

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Mona leaves family high, dry

City cuts off their water in dispute over connection

By Jens Dana

Deseret Morning News

Published: October 23, 2007

MONA, Juab County --- The past few nights have been restless ones for Tom Spotten.

He'd nod off every once in a while, but he'd quickly jolt awake, wondering if city officials were serious about cutting off the water to his house.

"Are they really going to do it?" he'd ask himself.

Monday afternoon, they did.

The Spotten family, which lives just outside the city boundaries, has had quarrels with Mona over water rights since 1984 when the city built a new water line and bypassed the Spotten home.

Tom Spotten said the city eventually allowed him to connect, but only after he signed a liability disclaimer because his water connection was above the chlorinator. The family continued to pay its water bill until 2002, when the city refused payment because city officials were told they couldn't charge for untreated water.

The issue came to a head Sept. 22 when the Utah Department of Environmental Quality deemed the Spotten family's water line a potential health hazard. Mona city officials also say the water line was illegally connected to the city system, so they decided to shut off the water on Monday. Now the house is without water. "We're high and dry, literally," said Tom Spotten, who underwent a back surgery that requires him to use a wheelchair.

Ken Bousefield, director of the Utah Division of Drinking Water, confirmed the Spottens' water line could be a potential hazard. But he also said a double-check valve would be a satisfactory, interim remedy while the Spottens and the city reached an "amicable resolution."

Some long-term solutions he mentioned included connecting their water line below the city chlorinator or installing an alternate chlorinator on the existing connection.

The Spottens tried to present the temporary remedy and pled their case Oct. 9 at a City Council meeting. But Mayor Bryce Lynn cut Karen Spotten off in mid-sentence, and the City Council voted 3-2 to proceed with the disconnection.

Lynn said Mona severed ties with the Spotten family in 1984 when it built the new city water line. He believes Tom Spotten connected his water line to the main line without permission and is "guilty of theft of services," he said.

Tom Spotten denies Lynn's allegation. He says Greg Newton, the Mona mayor at the time, stood by and walched him attach to the main

line. Karen Spotten added that the city had to know about the connection because the family paid nearly \$5,000 in water bills between 1984 and 2002.

Lynn said Monday that city officials were disconnecting the water line under direction of the Utah Department of Environmental Quality because the Spotten water connection creates "negative pressure" that could suck bacteria into the city water system.

"It's just gotta be done," Lynn said. "That's it."

Around 2 p.m., a Juab County sheriff's patrol car pulled up to the head of the Spottens' water line, and the distant rumble of a backhoe could be heard down the road.

As Mona water master Allen Pay dug six feet deep to disconnect the water line, Tom Spotten said he put on a tough face for the sake of his daughter, Jennifer, who has a heart condition. As a father, he said, he knows a parent's reaction has an impact on a child's health.

Lynn came and watched as Pay shoveled through the dirt. The Spottens said they tried to talk to him, but Lynn avoided them.

"That's the kind of mayor we have," Karen Spotten said. "If he feels what the (water) board did is right, why is he avoiding us?"

Eventually, the Spottens returned to their home and started filling their hot tub so they would be able to flush their toilet after the line was cut. They also filled their bathtubs, water jugs and the family camper trailer so they can shower.

Lynn said he feels like the Spottens untairly singled him out when it was the City Council that voted 3-2 on Oct. 9 to proceed with the disconnection.

"I didn't even vote," he said. "And I'll always be known as the crook who took their water."

The Spottens said they felt the city showed no compassion for their situation. City Attorney Karen Fenton said city officials gave the Spottens several notices informing them they had an illegal connection.

"The city has been more than patient in trying to get them to do what everybody else outside the city does, which is dig a well," she said.

As Mona resident Michael Keith watched the backhoe rip through the dirt, he said he was upset with how city officials handled the water dispute

"I think this is dead wrong," he said.

Later in the afternoon, Keith, a friend of Tom Spotten's for about 20 years, stopped by the Spotten residence to reassure them that friends wouldn't abandon them.

"There will be water," he said.

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River protection overdue

Many of Utah's 'wild' and 'scenic' rivers are in the Uinta Mountains

Patrick Parkinson, Of the Record staff The Park Record

Article Launched: 10/16/2007 04:16:42 PM MDT

Fly fishermen teamed with the Utah Rivers Council to visit the Uinta Mountains to survey which rivers should enjoy protection fithe federal government.

From bluish sections of the Provo River that stretch along the Mirror Lake Highway, to swift, remote parts of the Weber River at Blacks Fork that remind even the most seasoned fly fishermen of passages from "A River Runs Through It."

Rivers must have local or regional significance, be free flowing and exhibit "outstandingly remarkable" natural, cultural or recreational traits to qualify for protection from the Wild and Scenic Rivers Act.

Kamas District Ranger Cathy Kahlow said a stretch of the Upper Provo River, visible from the Mirror Lake Highway, is one of he favorite spots in the Wasatch-Cache National Forest.

"We went down to one portion of the Provo River where there are some beaver dams and also a lot of free-flowing water that the fishermen were enjoying," Kahlow said about a group of roughly 10 people who fished in the Uintas with the Utah River Council week.

Rivers in Utah that she says are second to none, so far, have eluded garnering protection from the federal Wild and Scenic Rive of 1968. Perhaps because Utah is one of the driest states in the nation, Kahlow said.

"There are a lot of rivers that people are depending on for reservoir development," she said. "It can be contentious in some res because water is so precious that some people would rather see it available for them to use in a consumptive way, for drinking.

Fly fisherman Steve Schmidt, who owns Western Rivers Flyfisher in Salt Lake City, said he never tires of fishing in the Uinta Mountains east of Kamas. The Ohio native has been fly-fishing since he was nine years old and joined Kahlow on the trip.

"I used to be up there every weekend There are 600 fishable pieces of water up there," Schmidt said. "When you come from Ol and you drive into the Uintas, your jaw drops. To see wild fisheries and self-sustaining fisheries, I was kind of overwhelmed by

Now development, which could include timber harvesting and oil exploration, could threaten those rivers, he explained, adding one of the greatest challenges faced by the fishing industry is the degradation of rivers and streams.

"The Rockies are the fastest growing area in the country," Schmidt lamented. "At some point in time it will be too late."

He is most comfortable fishing rivers in remote areas of the Uintas avoided by weekend warriors but impacted by drought, Schi said.

http://www.parkrecord.com/portlet/article/html/fragments/print_article.jsp?articleId=7194911&siteId=122

10/19/2007

"These are the root and source of resources that we desperately need to sustain our own lives and there are some real concern said.

Rivers are classified for protection by the federal government based on their wild, scenic or recreational values. Wild rivers show evidence of any development with access only via trails, officials say.

Among the rivers in Summit County that could be designated as wild are Henry's Fork, Thompson Creek, East Fork Blacks Fork, Ostler Creek, Boundary Creek and the Middle Fork of the Weber River. Rivers including West Fork Smiths Fork and Stillwater Fc could earn designations as scenic rivers.

But the proposal is controversial, Kahlow said.

"Local community dependence on water is something the decision-makers are going to look at strongly because the state is dry people need water to live," she said. "We would not have any jurisdiction over private land or existing water rights."

Many river segments in Utah that could receive federal protection are in Summit County.

The Wild and Scenic Rivers Act was drafted 30 years ago to counter rapid construction of dams in the United States, said Mark Danenhauer, river solutions coordinator for the Utah Rivers Council.

"The U.S. was on a dam-building frenzy," he said. "Most of our major rivers in the U.S. have dams on them."

Congress must act to designate a river as wild, scenic or recreational, he said.

"There are a lot of people who haven't been to these rivers," Danenhauer said in a telephone interview Tuesday. "What we try I with these trips is highlight the incredible rivers that we have in Utah."

The U.S. Forest Service plans to release a draft environmental impact statement in December, Kahlow said.

"Were narrowing it down from 86 rivers to different groups of rivers based on different kinds of attributes," she said, adding the public can comment about the proposal in January.

Danenhauer called rivers "the lifeblood of the land."

"Everything ties in with the rivers," he said.

Protection from the Wild and Scenic Rivers Act stops further dam construction on rivers, Danenhauer explained.

Visit www.rivers.gov for more information.

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6,700 endangered woundfin fish released into Virgin River waters By Mark Havnes The Salt Lake Tribune Salt Lake Tribune

Article Last Updated:10/18/2007 06:40:12 AM MDT

LA VERKIN - Something a little fishy happened Wednesday on the banks of the Virgin River - with some little fishies

Biologists released 6,700 woundfin into the turbid southwestern Utah river, the only body of water in the world where the tiny fish exists.

Before Wednesday's release, scientists believe, a mere 100 to 200 of the endangered species remained in the Virgin between La Verkin and the Utah-Arizona state line.

"It's important that these fish be planted," fish biologist Steve Meismer said. "It represents the ecosystem of the river working the way it is supposed to. There are not any real economic benefits, but the fish does let us know how healthy the river is, and that is important because if the river wasn't here, then none of us would be here, either."

Meismer is area coordinator of the Virgin River Program, a consortium of federal, state, local and private partners dedicated to balancing conservation interests with human needs.

Wednesday's release cost about \$630,000 in money and in-kind services.

Meismer said the project has been funneling the woundfin into the Virgin since 2003. Then, last August, the population was nearly wiped out - for reasons not yet clear - after rain-spawned flooding.

The freed fish, which reach two to three inches in length, were trucked in from the U.S. Fish and Wildlife Service's Dexter National Fish Hatchery and Technology Center near Roswell, N.M. They were released near the Virgin's confluences with La Verkin Creek and Ash Creek.

Mike Golden, Virgin River fish biologist with the Utah Division of Wildlife Resources, said each woundfin was injected with a green dye strip that will identify when and where the fish were released if captured in the future as part of ongoing studies

Golden cited several possible reasons for the species' decline, including nonnative predator species, decreased water quality and increased human use of the river.

Water levels from spring runoff also are crucial to reproduction, he said. "Eight years of drought haven't helped."

For Golden, it is a rare treat to see one wee woundfin - let alone 6,700.

"I worked all summer and never saw a woundfin," he said. "I'm thinking of having one tattooed on me so I can sec one all the time."

mhavnes@sltrib.com

About the woundfin

- * Scientific name: Plagopterus argentissimus.
- * Size: 2 to 3 inches long.
- * Life span: Two to three years
- * Location: Lives only in a section of the Virgin River in Washington County.
- * Diet: Anything from insects to floating organic matter.
- * Listing: Endangered since 1973.
- * Numbers: About 100 to 200 in the wild until Wednesday's introduction of 6,700.

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http://www.sitrib.com

Restaurants join battle vs. bottles By Mike Gorrell The Salt Lake Tribune Salt Lake Tribune

Article Last Updated: 10/12/2007 11:23:07 PM MDT

Utah restaurant chain Gastronomy Inc. lent its support Friday to Salt Lake City Mayor Rocky Anderson's campaign against bottled water.

The company formally pledged to continue serving municipal tap water rather than bottled water at its 11 Salt Lake Valley operations - four Market Street Grills, three Market Street Oyster Bars, The New Yorker private club and three Market Street Fresh Fish Markets.

Thomas Guinney, a Gastronomy partner and director of operations, said "we've been putting tap water on tables for 27 years," adding that the hospitality industry is embracing environmentally conscious practices for business as well as social reasons. "It's timely. Fresh is in, Buying local. Going green in all aspects now makes good business sense."

Gastronomy was not alone in endorsing the campaign, which features a Web site, www.knockoutwaterbottles com, where people and businesses can sign an online pledge to avoid bottled water. It was joined by four other Salt Lake City restaurants: Cedars of Lebanon, Himalayan Kitchen, Hong Kong Tea House and Kwan's Downtown Chinese

Cedars of Lebanon owner Raffi Daghlian said he never hesitated to join Anderson's effort to do away with plastic water bottles

"I was a biology major, and I'm very environmentally conscious. I don't like to waste things, and these bottles are not biodegradable," he said. "When the mayor raised the issue, I was in agreement with him. I did not think twice before I signed it. Someone has to start caring. This is my business to reduce our impacts on this Earth. Every person makes a difference."

Patrick Thronson, communications director in the Mayor's Office, said Salt Lake City is among a number of American and Canadian cities cooperating on a continental campaign to "think outside the bottle,"

These cities espouse the consumption of municipal culinary water, maintaining it is cleaner and safer.

"The whole goal is to encourage businesses and consumers to wake up and recognize the enormous, unnecessary, global-warming consequences that come from the production, transportation and disposal of bottled water," Thronson said.

The International Bottled Water Association on Wednesday disputed the allegations by Corporate Accountability International (CAI), which pushed the continental campaign supported by Anderson.

"The CAI campaign is based on factual errors and subjective viewpoints on bottled water and does nothing more than confuse and misinform consumers," said the association, which includes U.S. and international bottlers, distributors and suppliers.

"Bottled water is comprehensively regulated as a packaged food product by the U.S. Food and Drug Administration [FDA] and state regulatory agencies. The current system of bottled water regulation provides consumers with outstanding bottled water safety, quality and public health protection," the association added mikeg@sltrib.com

Mayor Rocky Anderson's "Knock Out Bottled Water" campaign contends:

- * 1.5 million barrels of oil are required annually to make plastic water bottles, using enough electricity to run 250,000 homes or 100,000 cars for a year.
- * U.S. consumers spent more than \$11 billion last year on bottled water, which per liter is more expensive than tap water and gasoline.
- * Making smaller water bottles from PET (polycthylene terephthalate) can generate 100 times more toxic emissions than an equivalent amount of glass.

Clase Window Send To Printer

The Salt Lake Tribune

http://www.sltrib.com

Water bottles disgust, but educate The Associated Press

Salt Lake Tribune

Article Last Updated:10/15/2007 12:52:41 AM MDT

SYRACUSE - The water looks clear, but the label on the bottle tells a different story.

"Ingredients," notes the back side of the bottle's label: "Water, fecal matter, toilet paper, hair, lint, rancid grease, stomach acid and trace amounts of Pepto Bismol, chocolate, urine, body oils, dead skin, industrial chemicals (aluminum, copper, zinc, lead, chromium, nickel, molybdenum, selenium, silver arsenic, mercury,) ammonia, soil, laundry soap, bath soap, shaving cream, sweat, saliva, salt, sugar. No artificial colors or preservatives. Some variations in taste and/or color may occur due to holidays, predominant cuisine preference, infiltra- tion/inflow, or sewer cross- connections."

The specially labeled bottle water comes courtesy of the North Davis Sewer District. Sewer-district manager Kevin Cowan hands out bottles (of actually clean, pure water) to those who tour its facilities.

Cowan says he's trying to make a point with the disgusting ingredients

It's "a lesson about our environment [about] being more conscious about what goes down the drain," he said

Close Window Send To Printer



'Sewer' water in a bottle - yum!

By Lynn Arave

Deseret Morning News

Published: October 14, 2007

SYRACUSE — The water appears crystalline and pure. The plastic container like any other water bottle you'd buy at the neighborhood market.

The label tells another story altogether.

It says: "North Davis Sewer District drinking water."

If that's not enough to give you pause, read on. This is not water from a fabled mountain spring. Nor is it a product of a soda pop conglomerate that claims the water has been double- or triple- or quadruple-purified.

Folks at the sewer district, says sewer-district manager Kevin R. Cowan, hand out bottles to those who tour its facilities. This "refreshing" humor is trying to make a serious, instructive point.

"We make them (visitors) think it is the treatment product," he said. "But it's also a lesson about our environment ... (about) being more conscious about what goes down the drain."

"This water originated as all-natural sewage collected through high-quality reinforced concrete sewer lines in the high mountain valleys of northern Davis and southern Weber counties," the label says in parody of many another water bottle.

"It was then processed using state-of-the-art screening, grit removal, sedimentation/flotation, biological oxidation, solids contact conditioning, and chlorine disinfection on the way back to you. This system is usually effective in removing up to 94 percent of biodegradable pollutants...."

Hmmm: 94 percent.

And that's a major point. What are you sending down the drain, hoping that the sewer district can remove it all before the water is returned to nature (and not, as you may be thinking, put into water bottles)?

"Ingredients," notes the back side of the bottle's label: "Water, fecal matter, toilet paper, hair, lint, rancid grease, stomach acid and trace amounts of Pepto Bismol, chocolate, urine, body oils, dead skin, industrial chemicals (aluminum, copper, zinc, lead, chromium, nickel, molybdenum, selenium, silver arsenic, mercury,) ammonia, ... soil, laundry soap, bath soap, shaving cream, sweat, saliva, salt, sugar. No artificial colors or preservatives. Some variations in taste and/or color may occur due to holidays, predominant cuisine preference, infiltration/inflow, or sewer cross-connections."

Cowan says: "It's all in good fun."

He said Jeff McFarlane, pretreatment coordinator at the plant, used similarly labeled bottled water as a tongue-in-cheek Christmas gift for

his neighbors last year, since they all know where he works.

Cowan said the district decided the bottles had promise as an inexpensive way to both have fun and promote water quality.

He said the public can help by not letting certain products swirl down the drain to end up in the sewer system, particularly paint, gasoline and household solvents.

Cowan said the sewer district recently completed an expansion project that has reduced pollutants by a couple of tons per day — ingredients that would otherwise have ended up in the Great Salt Lake.

Utahns are lucky that they are served by mountain water runoff. However, in places along the Mississippi River, for example, water is indirectly reused downstream.

So, really, it is not a stretch to think that former sewer-treated water could end up in the drinking supply.

As for the water inside the sewer district's bottles....

Layton Councilman Renny Knowlton, who represents the city on the sewer board, handed out the bottled water at a recent meeting. The response was tepid, to say the least.

"Ooh!" some people said. "Gross!" others exclaimed,

Then Knowlton suddenly uncorked a bottle and downed it to prove it really was pure water, a small matter clarified on the otherwise over-descriptive label. In blue print down the side it says:

"This bottle contains, pure, safe, drinkable water. Not a product of the North Davis Sewer District."

In other words -- "Just kidding!"

E-mail: lynn@desnews.com

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Rocky slowing flow of bottled water

Campaign urges eateries to protect environmentSome lines here please. Some lines in here

By Amy Choate-Nielsen

Deseret Morning News

Published: October 13, 2007

To restaurateur Tom Guinney, drinking bottled water is as uncool as smoking in a crowded restaurant — and it's a fad that won't last long.

Guinney, an owner of the Gastronomy restaurant group, is one of several Salt Lake City business owners who have joined Mayor Rocky Anderson's newly launched "Knock Out Bottled Water" campaign and vowed not to sell bottled water at his establishments. Guinney says he thinks that soon a majority of restaurants won't sell "bottled tap water."

"This is not a vision of something that will take place in the next decade; (selling bottled water) is probably where smoking was in public restaurants and private clubs four or five years ago," Guinney said. "I speculate that in 36 months the consumption of (bottled water) sold in the hospitality industry will be half of what it presently is."

Anderson unveiled his new campaign — www.knockoutbottledwater.com — Friday moming, noting his involvement in a national movement to eliminate bottled water in lieu of tap water. The mayor is encouraging business owners and residents to commit to not selling or drinking bottled water and support others who have committed to do the same.

"The purchase of bottled water is absurd," Anderson said. "It is a sign, when we purchase bottled water, of our destructive consumerism. It is a reckless waste of public resources (not to use tap water), and when we purchase (bottled water) it is a waste of our own monetary resources as well."

Establishments who have committed not to serve bottled water will display a "Knock Out Bottled Water" decal, Anderson said. So far, 15 restaurants, which are listed on the campaign's Web site, have agreed to participate in the campaign. Anderson said a majority of restaurants have not yet responded to the campaign request, but some business owners have declined to participate.

"One club owner said 'no' because he can make money off of selling bottled water," Anderson said. "That seems pretty short-sighted to me."

Raffi Daghlian, who owns Cedars of Lebanon restaurant on 154 E. 200 South in Salt Lake City, says he decided to commit to the no-bottled water campaign because of the environmental impacts the industry can have.

According to the Sierra Club, nine out of 10 plastic water bottles are not recycled. Other opponents of plastic bottles say the amount of oil required to make enough bottles for the United States for one year is enough to generate enough electricity for 250,000 homes or fuel for 100,000 cars for one year.

"I saw some reports locally and internationally about the cause and this position, and I just didn't want to use those bottled waters anymore,

especially the plastic ones," Daghlian said. "We have to start somewhere, and a little bit here and a little bit there just adds up." Daghlian says he usually doesn't tell customers that the restaurant has bottled water available anyway, because he doesn't agree with the amount of energy it takes to make plastic bottles. The risk of losing revenue for not selling bottled water isn't a worry, Daghlian says.

"I have more of a conscience than a calculation of profits in my head, and everything is not about money," Daghlian said. "The greedier you get is not going to make you any happier. We can live with less,"

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Water-policy plan is in works

By Nicole Warburton

Deseret Morning News

Published: October 13, 2007

After a three-day conference this week in Salt Lake City on ensuring long-term water supplies in the West that are threatened by global climate change, members of the Western States Water Council plan to release a list of water policy recommendations to the governors of 18 states.

The list could include recommendations on how to deal with climate change, new policy on how to link researchers with state and local water bosses, and ways to get more money for research and implementation of water plans.

"We're going to try to influence policy," Duane Smith, chairman of the water council, said Friday at the close of the conference. "We're not going to sit here and just have a report that academicians think is such a great thing."

No time frame was given for release of the report. During this week's conference, information was gathered from attendees about possible changes in water policy. Conferencegoers included state, city and county leaders, as well as federal-agency and business leaders.

The subject of climate change was discussed during break-out sessions during the conference and also Friday during a closing brain-storm session. One attendee said he was concerned that water council leaders weren't listening to concerns from researchers about pollution and a warming Earth.

Smith said the council was aware of research about climate change, and his group would seek to push policy to link researchers with policy makers on state and local levels in order to foster changes.

"How can we provide a clearing-house for science that actually brings that into the water manager's scenario?" Smith asked. "In our recommendations, we will try to deal with that."

Smith said the 18 governors who will receive the recommendations are members of the Western Governor's Association, which appoints members to the water council.

E-mail: nwarburton@desnews.com

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CLICK HERE to print this page



Bureau of Reclamation Helping Utah Companies Conserve October 11, 2007



Jed Boal Reporting

Several million dollars of federal money flowed into Utah today to help conserve water. The Bureau of Reclamation is encouraging local solutions to a regional problem.

Snow dusts the peaks, but most of Utah suffered another desperately dry year. That's one reason the United States Bureau of Reclamation awarded \$2.7 million in grant money for innovative water projects focused on water conservation and better efficiency.

"The program is aimed at helping to avert conflict in the West. We try to find projects that will help do that," explained Robert Johnson, commissioner of the U.S. Bureau of Reclamation.

The Water 2025 grant program gave out 13 grants to 11 water management districts from Utah, and one each from Idaho and Wyoming. Combined, the programs will help save, or better manage, 85,000 acre feet of water, "The 2025 programs bring an incentive for local communities to work together to figure out how to solve their water problems in a cooperative framework," Johnson said.

The projects range from measuring devices and water banks to canal improvements.

Weber Basin created an innovative water bank that stores spring run-off in underground aquifers. "It's the federal government recognizing that the Wasatch Front has a potential crisis coming for water supply," said Tage Flint, conservancy district manager for Weber Basin Water.





The certainty of growth and the probability of more dry years will force water managers to continue to come up with ways to conserve. "We need to be innovative and use some of these new technologies to stretch our current water supplies farther before we develop anything new," Flint said.

In the long run, the water manager says conservation is just as critical as innovation.

To learn more about the Water 2025 grant program, click the related link.

Grant Recipients

- Bell Canyon Irrigation Company
- Provo River Water Users Association
- · Scipio Imigation Company
- Uintah Indian Irrigation Project
- Uintah Water Conservancy District
- · Winder Lateral Association
- · Payson City
- Strawberry High Line Canal Association

- Strawberry Water Users Association Utah Lake Distributing Company Weber Basin Water Conservancy District Wyoming State Engineer's Office

The Salt Lake Tribune

http://www.sitrib.com

New lake may greet farmers and fishers in southern Utah By Mark Havnes The Salt Lake Tribune Salt Lake Tribune

Article Last Updated:10/11/2007 10:00:44 AM MDT

KANAB - Southern Utah farmers and fishers soon may land a big one: a new lake,

The proposed Jackson Flat Reservoir, inundating 212 acres of pastureland three miles south of Kanab's city center, would store 3,900 acre-feet of water so planters could irrigate their fields and anglers could hook bass and bluegills.

"It would be a good place for a fishery," said Bruce Bonebrake, regional habitat manager for the Division of Wildlife Resources in Cedar City_"My assumption is it could be like Sand Hollow," a much-larger reservoir in neighboring Washington County.

Jackson Flat also would provide a place for nonmotorized boating and offer shoreline trails for hiking and all-terrain-vehicle riding.

The Kane County Water Conservancy District wants to erect a 42-foot high earthen dam at a cost of \$6 million to \$7 million to impound water piped from Kanab Creek. The resulting lake would replace three smaller, dried-up reservoirs built in the 1930s but are out of use because their dams are unsafe

Kanab Irrigation Co. shareholders could tap Jackson Flat's water to nurture their crops

Mike Noel, executive director of the conservancy district, said the reservoir would allow water to be stored during the winter for use in the summer. Right now, that creek water flows year-round.

"Using water on the fields in winter is not as efficient," Noel said. "[With the reservoir] we can pipe it to the fields in the summer when needed most."

Additional homeowners in Kanab also could tap shares for irrigation, freeing up culinary water now supplied by the city. Even the city itself could buy water to care for its property.

The reservoir would not store water from the controversial pipeline proposed from Lake Powell to the mushrooming St. George area and southwestern Utah. If all goes as planned, Noel said, construction could start in December or January and would be funded through grants, conservancy-district tax assessments and irrigation-company storage fees.

Noel said the conservancy district spent \$900,000 to buy 400 acres for the reservoir from the Jackson family - hence the reservoir's name.

The 30-day comment period for the project's draft environmental assessment has been extended to Nov. 5 to allow further input from the Paiute Tribe, the Kaibab National Forest and the Arizona Game and Fish Department,

Jackson Flat would engulf 15 archaeological sites ranging from Paleo-Indian culture to pioneer settlements. A dozen of those sites, according to the draft environmental assessment, potentially could qualify for the National Register of Historic Places.

The Kaibab Band of Paiute, in a December 2006 letter, warned that the tribe would not endorse the project because it prefers to "preserve what is left of our cultural heritage by protecting archaeological sites."

Even so, the tribe cannot block the reservoir, although it has asked to be kept up to date on the project.

Noel, who does not expect any serious roadblocks to stop the reservoir, said crews will survey, document and collect artifacts from the area - in accordance with federal law. Public education and interpretive outreach programs also have been proposed.

Noel noted that a Kanab-commissioned recreation study by Utah State University several years ago highlighted the reservoir.

"They recommended trails, picnic tables and other amenities that would benefit from having a water resource in the community."

mhavnes@sltrib.com

About Jackson Flat Reservoir

- * Location: Three miles south of Kanab's center.
- * Type: Earthen dam.
- * Size: 212 surface acres
- * Water capacity: 3,900 acre-feet
- * Water source: Kanab Creek
- * Operator: Kane County Water Conservancy District
- * Cost: \$6 million to \$7 million,
- * Construction: Could start in December or January
- * Purpose: Recreation, fishery, irrigation-water storage.



AGENDA ITEM 11

LETTERS

OCTOBER 29, 2007 LETTER



State of Utah

Department of Environmental Quality

Richard W. Sprott Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director

Drinking Water Board
Anne Erickson, Ed D., Chair
Myron Bateman, Vice-Chair
Ken Bassett
Damel Fleming
Jay Franson, P.E.
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Paul Hansen, P.E.
Petra Rust
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David K. Stevens, Ph.D.
Ron Thompson
Kenneth H. Bousfield, P.E.

Executive Secretary

JON M HUNTSMAN, JR.
Governor

GARY HERBERT Lieutenani Governor

October 29, 2007

Jim Hone New Haven-Spanish Fork Canyon 2096 East 7200 South Spanish Fork, Utah 84660

Dear Mr. Hone:

Subject: Notice of Violation and Administrative Order, New Haven-Spanish Fork Canyon Drinking Water System #UTAH25159

New Haven-Spanish Fork Canyon Drinking Water System is a public water system and as such is subject to the Administrative Rules for Public Drinking Water Systems (copy available upon request). Under Utah Administrative Code R 309-100-4, a water system is considered a public water system, when 25 or more people are served water for at least 60 days, or 15 or more water system connections are served, even though the water system is privately held. New Haven-Spanish Fork Canyon has approximately 46 users, and is therefore, a public water system.

In the last year of operation, 528 violation points have been assessed against the New Haven-Spanish Fork Canyon Drinking Water System. Under our Improvement Priority System (IPS) non-transient water systems exceeding 120 points are rated "Not Approved" and placed on a priority list for enforcement actions. The New Haven-Spanish Fork Drinking Water System is currently rated "Not Approved" by our office. Further, because of these violations, the Drinking Water Board is issuing the attached Notice of Violations and Order (Notice and Order) to ensure compliance.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jim Hone Page 2 October 29, 2007

Please give this Notice and Order your immediate attention. A written response is required within 30 days after receipt of this NOTICE. This order is fully enforceable unless appealed in writing within 30 days, as described in the "Notice" section of the Notice of Violation and Order. Any response or written answer to this Notice and Order should be addressed to Kenneth H. Bousfield, P.E., Executive Secretary, Drinking Water Board, C/O Division of Drinking Water, 150 North 1950 West, P.O. Box 144830, Salt Lake City, Utah 84114-4830.

If you have any questions, or wish to review the water system on-site, please call Rachael Cassady, at (801) 536-4467. A phone call to the Division of Drinking Water or an on-site visit does not alter the requirement to timely respond in writing if you wish to contest this Notice and Order.

Sincerely,

DRINKING WATER BOARD

Kenneth H. Bousfield, P.E.

Executive Secretary

RC

Attachments

Ce: Utah County Public Health Department
Kathelene Brainch, EPA, Region VIII
M. M. Hubbell, Attorney General Office
Utah County Commission, 100 E Center St Suite 2300, Provo, UT 84606
Utah County Planning Commission, 51 S University Ave, Suite 117, Provo, UT 84601

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DRINKING WATER BOARD

In the Matter of

the New Haven-Spanish Fork Drinking Water System #UTAH25159

Notice of Violation and Order

Case No. 0701988

The Drinking Water Board ("Board") issues this Notice of Violation and Order under the Utah Safe Drinking Water Act ("Act"), Utah Code Ann. §§ 19-4-104, -105, -106, -107, and -109, Utah Administrative Code ("UAC") Rules 309-100 to-705 and in accordance with the Utah Administrative Procedures Act §§ 63-46b, -0.5 to -23.

FACTS AND VIOLATIONS

- 1. The New Haven-Spanish Fork Drinking Water System is a public water system in Utah County that provides drinking water to an estimated 46 people. The Administrative Contact listed on the Division of Drinking Water records for the New Haven-Spanish Fork Drinking Water System is Jim Hone.
- 2. A copy of New Haven-Spanish Fork Drinking Water System's Improvement Priority System (IPS) report (included with Public Water system Master Report Attachment C) states that 528 IPS points that have been assessed against the water system as of October 16, 2007.
- 3. Based on the Division of Drinking Water's records, the New Haven-Spanish Fork Water System has failed to sample for pesticides from the WS003 Far West Well in violation of UAC R309-205-6(1)(d).
- 4. The New Haven-Spanish Fork Water System does not have an operator certified to operate the system at the required level in violation of UAC R309-105-11.
- 5. The water system facility WS001 East Well is lacking proper plan approval; specifically it has no engineering plans, no preliminary evaluation report and no source protection plan, a violation of UAC R309-500-4(1).
- 6. A sanitary survey was performed on March 14, 2007. Based on the survey the following deficiencies were found:
 - The New Haven-Spanish Fork fire hydrant use policy is inadequate, a violation of UAC R309-550-6(5).
 - b. There are inadequate sample sites for the residual testing in violation of UAC R309-215-5(2).

- There is inadequate distribution capacity for fire flow, a violation of UAC R309-550-5(5).
- Water system facility WS003, Farr West Well lacks plan approval in violation of UAC R309-500-4(1).
- e. The cross connection control program lacks written records, local authority, and an on-going enforcement plan in violation of UAC R309-105-12(2).
- f. The distribution system has an unprotected cross connection, a violation of UAC R309-105-12(1).
- The water system facility TP001 East Well has no access to lab or test kits for process testing in violation of UAC R309-520-10(1)(j).
- h. The water system facility TP001 East Well has expired chemical reagent used for process control testing in violation of UAC R309-520-10(2)(p).
- The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well have insecure well houses in violation of UAC R309-540-5(1).
- j. The elevation on the well casing for water system facility WS003 Far West Well is inadequate, a violation of UAC R309-515-6(13)(a).
- The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well lack a proper well seal in violation of UAC R309-515-6(12)(c).
- The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well do not provide a way to measure the drawdown in violation of UAC R309-515-6(12)(f).
- m. The well house cross connection in water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well is unprotected, a violation of UAC R309-515-6(12)(e).
- n. The well house in water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well don not have a drain to daylight in violation of UAC R309-515-6(13)(b).
- o. The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well do not have a smooth nosed sampling tap on the discharge piping equipment in violation of UAC R309-515-6(12)(e).
- p. The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well all need a check valve on the discharge piping equipment in violation of UAC R309-515-6(12)(e).

- The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well all need a pressure gauge on the discharge piping equipment in violation of UAC R309-515-6(12)(e).
- r. The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well all need a flow measuring device on the discharge piping equipment in violation of UAC R309-515-6(12)(e).
- The water system facilities WS001 East Well, WS002 West Well, and WS003 Far West Well all need a shut off valve on the discharge piping equipment in violation of UAC R309-515-6(12)(e).
- t. The water system facility TP001 East Well has insufficient chlorine contact time in violation of UAC R309-520-10(f).
- u. The water system facility TP001 East Well has no means of measuring water treated with chlorine in violation of UAC R309-520-10(1)(I).
- v. The water system facility TP001 East Well solution feeder lacks backflow protection in violation of UAC R309-520-10(2)(j)...
- w. The chemicals for TP001 East Well are stored improperly in violation of UAC R309-520-10(2)(g).
- x. The feed equipment for TP002 West Well is not operable in violation of UAC R309-520-10(2)(f).
- y. The daily records for water system facility TP002 West Well do not reflect dosages and totals in violation of UAC R309-520-10(1)(j).
- The chemical feeders for water system facility TP001 East Well are improperly calibrated in violation of UAC R309-215-9.
- There are no provisions for measuring the total chemical use for water system facility TP001 East Well in violation of UAC R309-520-10(1)(I).
- bb. The chemicals for water system facility TP001 East Well do not comply with ANSI/NSF standards in violation of UAC R309-520-15(4).
- cc. There is inadequate process control testing for water system facility TP001 East Well in violation of UAC R309-215-6.
- The distribution system lacks more than 40% of the required storage capacity in violation of UAC R309-510-9.

ORDER

As a part of your responsibilities under Utah Administrative Code Rule 309-100-9, the management of the New Haven-Spanish Fork Water System is hereby ordered to provide the Division of Drinking Water with written evidence of completion of the following items according to the deadlines given below:

- New Haven-Spanish Fork Water System must provide the Board with evidence that a public
 notice has been given to each of your customers by mail and newspaper for item #3 as listed in
 FACTS AND VIOLATIONS above. This must include proof of publication regarding the
 violations listed above as required by UAC R309-220-7. This notice shall include an
 explanation of all violations and the actions taken by the water system management to prevent
 further violations.
- 2. Within 60 days of the receipt of this Notice of Violation and Order, the New Haven-Spanish Fork Water System must develop a cross-connection control program that includes the following components: (I) legally adopted and functional authority to enforce a cross connection control program; (2) written records of cross connection control activities; and (3) documentation of on-going cross connection enforcement activities.
- The New Haven-Spanish Fork Water System must have a certified operator for the system by June 30, 2008. This operator must, at a minimum, be certified as a Distribution Small System classification.
- Within 60 days of the receipt of the Notice of Violation and Order, the New Haven-Spanish Fork Water System must gain proper plan approval for WS001 East Well.
- 5. The New Haven-Spanish Fork Water System must correct all physical deficiencies listed in section 6, paragraphs a through dd in FACTS AND VIOLATIONS above within 60 days of the receipt of this Notice of Violation and Order.

NOTICE

If the management of New Haven-Spanish Fork Drinking Water System wishes to contest this "Notice of Violation and Order", they must respond in writing and request a hearing before the Board. The response and request for hearing must be received by the Executive Secretary (at the address below) within 30 days of the date shown on the certificate of mailing. See Utah Code Annotated § 63-46b-3 (2)(a)(vi) and Utah Code Annotated § 63-46b-12. If you do not request a hearing in writing and participate in the hearing, the Order will become final and you will not be allowed to contest this Notice of Violation in court. See Utah Code Annotated § 63-46b-14 (2). Utah Code Annotated § 19-4-109 states that anyone who violates the Utah Safe Drinking Water Act, permit, rule, or order is subject to a civil penalty of up to \$1,000 per day of violation. Willful violators may be fined up to \$5,000 per day.

Issued this 30 day of 00

2007

DRINKING WATER BOARD

Kenneth H. Bousfield, P.E.

Drinking Water Board Executive Secretary

C/O Division of Drinking Water

P.O. Box 144830

Salt Lake City, Utah 84414-4830

Phone: (801) 536-4200

CERTIFICATE OF MAILING

BY CERTIFIED MAIL TO:

Jim Hone New Haven-Spanish Fork Canyon 2096 East 7200 South Spanish Fork, Utah 84660

BY REGULAR MAIL TO:

M. M. Hubbell Assistant Attorney General 160 East 300 South, Third Floor P.O. Box 140873 Salt Lake City, UT 84114-0873

Utah County Health Department Environmental Health Director 151 South University Ave Provo, UT 84601-4427

Kathelene Brainch EPA, Region 8, P-W-TF 1595 Wynkoop Street Denver, CO 80202-1129

Utah County Commission 100 East Center Street Suite 2300 Provo, UT 84606

Utah County Planning Commission 51 South University Ave Suite 117 Provo, UT 84601

Kem eth H. Bousfield, P.E.

Executive Secretary

Attachment A

Sanitary Survey results of survey conducted March 14, 2007 by Steve Onysko, P.E. of the Division of Drinking Water.



State of Utah

Department of Environmental Quality

> Dianne R. Nielson, Ph.D. Executive Director

DIVISION OF DRINKING WATER Keyin W. Brown, P.E. Director

April 13, 2007

Jim Hone New Haven Girls Home 2096 East 7200 South Spanish Fork, UT 84660

Dear Mr. Henrie:

Subject: New Haven Girls Home Water System, System #25159,

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

Calendar Year 2007 Sanitary Survey

On March 14, 2007, I completed a sanitary survey of your water system. Your water system consists of three wells, each serving a separate residence home, with conventional hydropneumatic pressure tanks at two of the residences (West House and East House) and a more sophisticated setup of a variable frequency drive on the well pump at the third residence (Far East House). There is a chlorination system in West House for water from the West Well. There are cartridge filtration systems, presumably for particulate iron removal, in both the West House and East House for water from West Well and East Well, respectively.

In 2004, the water system was granted an exception to Rule to use the West Well and East Well without the normally required Source Protection Plan. The exception was granted until such time that Spanish Fork City water system service area extends to the New Haven Girls Home property area but no later than September 30, 2007. Since that time, your water system has added a third well, the Far East Well, without the required approval from the Division of Drinking Water.

Jim Hone April 13, 2007 Page 2 of 3

Facilities for water distribution — from the water sources all the way through to the end-users — are integral to all public water systems. The State of Utah Administrative Rules for Public Drinking Water Systems Rule 309-150, Improvement Priority System Rule, establishes a point system for quantifying the sanitary survey findings of the distribution components of all Utah public water systems.

Rule 309-150 requires that a noncommunity water system that is assessed more than 100 deficiency points on a sanitary survey must be classified as not approved. As a result of the 2006 2007 sanitary survey, your water system is now rated as not approved because the water system was assessed 300 IPS deficiency points.

Your most significant IPS deficiency points (150 points) were assigned because you are using an unapproved water source, the Far East Well, in your water system. Use of an unapproved water source is assumed to be a serious public health threat and this violation alone requires the Division to rate your water system as not approved. There are additional Rule violations at the West Well and the East Well. Neither well appears to have a satisfactory sanitary seal (50 points), wellhead appurtenances (10 points) such as flowmeters or check valves, or well casing vent (5 points). Also, major elements of a mandatory Cross Connection Control Program are missing (30 points) for your public water system. Lastly, the water system is deficient in water storage capacity (50 points) because there is no actual storage other than the hydropneumatic tanks in West House and East House. Under State Rule, hydropneumatic tank storage does not qualify as legitimate water system storage capacity. Your water system also lacks a required bacteriological sampling site plan (5 points).

Both the West Well and the East Well are noted in Division files as treatment facilities. The West Well has chlorination followed by particulate removal in filter cartridges. The East Well has only particulate removal in filter cartridges. The West Well chlorination process appears to lack the required plan approval from the Division. During the survey, you theorized that at sometime in the past the Division directed you to add disinfection at the West Well. A search of our records has not uncovered any such directive. If you have a copy of any communication from the Division to your water system about mandated disinfection, we would like to obtain a copy of that communication. The chlorination system appears to be inadequate mostly because of an old and unreliable solution feed pump. You should upgrade this solution feed pump after consultation with, and approval by, the Division.

The Division recently contacted Spanish Fork City water system manager Richard Heap about possible extension of Spanish Fork City water service to your facility. The cost is estimated at

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approximately \$60,000. We encourage you to pursue this remedy of your water system deficiencies. Perhaps you can partner on costs with other potential water users along the needed 1500' waterline extension from the edge of the present Spanish Fork water system service area to your property.

Please also note that our search of water rights records for your three wells showed that ownership of the water rights is given as LAMC Company. If this is supposed to be Solacium (Real Estate) Holdings, please update the information with the State Engineer's Office and notify us when the changes have been finalized.

As you correct your water system deficiencies, notify the Division so that the corresponding IPS points can be removed from you water system score. If you have any questions about your sanitary survey results, contact me at 801-536-0096.

Sincerely,

Steven J. Onysko, P.E.

Environmental Engineer III

sjo

CCL

√ System File

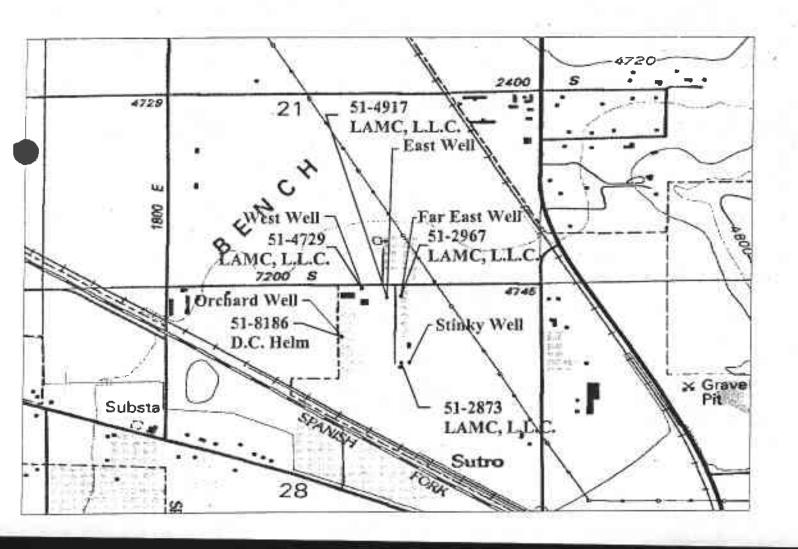
Reading File (Cover Letter only)

Lanty Ross, Utah County Health Dept., 151 South University Ave., Provo, UT 84601-4427

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NEW HAVEN GIRLS HOME/SPANISH FORK WATER SYSTEM #25159

WATER RIGHT	METHOD	GEOPOSITION
51-4917 East Well	PLS Water Right PLS to NAD 83 Water Right PLS to NAD 27	
51-4729 West Well	PLS Water Right PLS to NAD 83 Water Right PLS to NAD 27	
51-2967, a6634 Far East Well	PLS Water Right PLS to NAD 83 Water Right PLS to NAD 27	South 191' West 1499' from NE Corner Section 28 T085 R03E Spanish Fork Peak 40.10034° (40° 06' 1.23024") 111.60299° (111° 36' 10.7695") 40.10039° (40° 06' 1.390") 111.60224° (111° 36' 8.061")
SOURCE	метнор	GEOPOSITION
DDW-01 East Well	Field NAD83 Field NAD83 to NAD27 Field NAD83 to PLS	No 2007 GPS Reading (not enough satellites)
DDW-02 West Well Oldest	Field NAD83 Field NAD83 to NAD27 Field NAD83 to PLS	40.10066° (40° 06' 2.38881") 111.60447° (111° 36' 16.08869") 40.10071° (40° 06' 2.54562") 111.60372° (111° 36' 13.37978") 50uth 68.46' East 741.65' from N4 Corner Section 28 T08S R03E Spanish Fork Peak
DDW-03 Far East Well Newest	Field NAD83 Field NAD83 to NAD27 Field NAD83 to PLS	40.10034° (40° 06' 1.22657") 111.60299° (111° 36' 10.76085") 40.10039° (40° 06' 1.38633") 111.60224° (111° 36' 8.05234") South 188.53' East 1154.70' from N4 Corner Section 28 T08S R03E Spanish Fork Peak



Sanitary Survey - Deficiency Report

PWS Number: UTAH25159

Total Demerit Points: 823

Survey Date:

4/12/2007

Survey Name: NEW HAVEN-SPANISH FK CAN

Surveyor Name: Steven Onysko

Sanitary Survey Category: DS

SDWIS Severity Code: Significant Deficiency

Management / Cross-Connections

Are there any unprotected connections between the distribution system and any pipes, pumps, hydrama, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system?

Answer Recorded Yes

Comments: R309-105-12(1)

R309-105-12(1) states that a water supplier shall not allow a connection to

his system which may Jeopardize its quality and integrity. Cross

properly operating backflow prevention assembly, 50 demerit points. connections are not allowed unless controlled by an approved and

This deficiency shall be corrected immediately.

Notes

All three drinking water wells have substandard connections to outdoor impatton

Demerit Points:

Days to Correct Deficiency;

M020 SDWIS Deficiency Description:

UNPROTECTED CROSS CONN PRESENT IN DIST SYSTEM

SDWIS Severity Code: Recommendation

DISTRIBUTION SYSTEM - (Active) / Cross-Connections

Does the water system have a program to control the use of fire hydrants?

Answer Recorded No

Comments:

Fire hydrants provide a direct access to the water in the distribution system. In order to protect the quality and integrity of the water, fire hydrant access should be controlled.

Notes.

Demerit Points:

Days to Correct Deficiency: (

SDWIS Deficiency Description: D012 REC - FIRE

REC - FIRE HYDRANT USE POLICY INADEQUATE

SDWIS Severity Code: Minor Deliciency

DISTRIBUTION SYSTEM - (Active) / Design

Do all water mains (installed after 1995) that provide fire flow have a diameter of at least 8 inches?

Answer Recorded No

Comments

R309-550-5(4) states that the minimum line size serving a fire hydrant sateral shall be 8-inch diameter unless a hydraulic analysis indicates that required flow and pressuress can be maintained by smaller lines. 5 demerit points. This deficiency should be corrected within 365 days.

Notes:

Demerit Points: 5

Days to Correct Deficiency: 365

INADEQUATE DISTRIBUTION CAPACITY FOR FIREFLOW SDWTS Deficiency Description: D019

SDWIS Severity Code: Significant Deficiency

Management / Planning / General

Does the system meet a minimum of 80% of the required storage capacity?

Answer Recorded No.

Comments: R309-510-8

R309-510-8 designates the appropriate amount of storage per water system. 20 demerit points shall be assigned. This deficiency should be corrected within 365 days of notification.

Notes:

Demerit Points:

Days to Correct Deficiency: 365

SDWIS Deficiency Description: V031

SYSTEM LACKS 20% OF REQUIRED STORAGE CAPACITY

Does the system meet a minimum of 70% of the required storage capacity?

Answer Recorded No

Comments: R309-510-8 R309-510-8 designate

R309-510-8 designates the appropriate amount of storage per water system. 30 demerit points shall be assigned. This deficiency should be

corrected within 365 days of notification.

Notes:

Demerit Points: 3

Days to Correct Deficiency: 365

SDWIS Deficiency Description:

V032 SYSTEM LACKS 30% OF REQUIRED STORAGE CAPACITY

SDWIS Severity Code: Significant Deficiency

Management / Planning / General

Does the system meet a minimum of 60% of the required storage cupacity?

Answer Recorded No

Comments: R309-510-8

R309-510-8 designates the appropriate amount of storage per water system. 40 demerit points shall be assigned. This deficiency should be corrected within 365 days of notification.

Notes:

Demerit Points: 4

Days to Correct Deficiency: 365

SDWIS Deficiency Description: V033 SYSTEN

SYSTEM LACKS 40% OF REQUIRED STORAGE CAPACITY

SDWIS Severity Code: Minor Deficiency

Management / Planning / General

Does the system meet a minimum of 90% of the required storage capacity?

Attswer Recorded No

system. 10 demerit points shall be assigned. This deficiency should be R309-510-8 designates the appropriate amount of storage per water Comments: R309-510-8

corrected within 365 days of notification.

Notes:

Demerit Points: 10

Days to Correct Deficiency: 365

SYSTEM LACKS 10% OF REQUIRED STORAGE CAPACITY V030 SDWIS Deficiency Description:

SDWIS Severity Code: Minor Deficiency

DISTRIBUTION SYSTEM - (Active) / Disinfection

Does your water facility disinfaction procedures meet the AWWA C-601, 602, 651, 652 Standards for disinfaction?

Answer Recorded No

Comments: R309-105-10(2)&(3)

AWWA Standard C651. 10 demerit points. This deficienct practice shall appartenances and reservoirs shall be disinfected in accordance with R309-105-10(2)&(3) atte that all new and repaired water mains and stop immediately.

Notes:

Demerit Points:

Days to Correct Deficiency;

D018 SDWIS Deficiency Description:

IMPROPER BATCH DISINFECTION PRACTICES

Sanitary Survey Category: OC

SDW1S Severity Code: Significant Deficiency

Management / Staffing

is the main operator properly certified at the level required for the system?

Answer Recorded No. Comments; R308-300-3

public water system that utilizes a surface water source shall be operated by a appropriately certified operator. 30 demerit points. This delictency R309-306-3 requires all community and NTNC water system and any should be corrected within 365 days of notification.

Nontransient noncommunity water system operators must be certified. The present

water system operator, Jim Hone, is not certified.

Demerit Points:

Notes:

Days to Correct Deficiency:

OPERATOR NOT CERT TO LEVEL REQUIRED FOR 00 00 00 SDWIS Deficiency Description:

SYSTEM

SDWIS Severity Code: Significant Deficiency

Management / Planning / General

DDW review of recent modifications:

Answer Recorded No

Secretary. 50 demerit points. This deficiency should be corrected within drinking water projects shall be approved in writing by the Executive R309-105-6(1) requires complete plans & specification for all public Comments: R309-105-6(1)

90 days of notification. Votes:

A third well, the Far East Well, which dates back many years as an infantion well for the former farm and orchard, was rehabilitated and put into drinking water system use

> S Demerit Points:

8 Days to Correct Deficiency:

SDWIS Deficiency Description:

WATER SYSTEM FACILITY LACKS PLAN APPROVAL 99

Management / Source Protection

Is there a current copy of each of the DWSP Plans on the premises of the water system? (If this is a transient non-community, they should have a copy of their assessment on the premises.)

Answer Recorded No

implement a source protection plan for each of its sources and update and R309-600.7 & 605.7 require a public water system to develop, submit and resultmit their DWSP plans every 6 years. 30 demerit points. This deficiency should be corrected within 30 days. Comments: R309-600-7 & 605-7

Plen. The two older wells, west Well and East Well, have DWSP Plans on file at DDW In fact, the unapproved third well, the Far East Well, has no Division-recorded DWSP but not at the facility itself.

Demerit Points:

Notes

30 Days to Correct Deficiency: SP02

SDWIS Deficiency Description:

NO CURRENT COPY OF SOURCE PROTECTION PLAN ON

Page 6 of 30

4/12/2007

SDWIS Severity Code: Significant Deficiency

Management / Source Protection

Are there any new sources for which a Preliminary Evaluation Report has not been submitted?

Answer Recorded Yes

R309-600-13 & 605-9 require a public water system to submit a Comments: R309-600-13 & 605-9

preliminary evaluation report prior to development of any new source of drinking water. Demerit points assessed under unapproved source category. This deficiency should be corrected within 30 days.

Far East Well.

Notes:

Demerit Points: 0

Days to Correct Deficiency: 30

SDWIS Deficiency Description: SP06

UNAPPROVED SOURCE NO PRELIM EVALUATION

REPORT

Are there any old sources that have come into use for which a DWSP Plan has not been submitted?

Answer Recorded Yes

R309-606-7 & 605-7 require a public water system to develop, submit and mplement a source protection plan for each of its sources. 30 demerit Comments: R309-600-7 & 605-7

points. This deficiency should be corrected immediately.

The third well, the Far East Well. A 10/24/04 construction and DWSP Plan exception was granted.

Dement Points: 30

Notion:

Days to Correct Deficiency: 0

SDWIS Deficiency Description: SP08 OLD SOURCE LACKS A DWSP PLAN

SDWIS Severity Code: Recommendation

Management / Emergency Response

Does your system have a written Emergency Response Plan?

Answer Recorded No

Comments: R309-150-10(2) A writt

A written Emergency Response Plan helps to protect the quality and quantity of water available to consumers. R309-150-10(2) allows 10 credit points to be issued.

Notes:

Demerit Points: -1

Days to Correct Deficiency:

SDWIS Deficiency Description: M001

CURRENT EMERGENCY RESPONSE PROGRAM

SDW1S Severity Code: Recommendation

Management / Planning / General

Are there any undocumented water system facilities? (i.e. tanks, pump stations, treatment facilities, etc.)

Answer Recorded Yes

Comments:

Notes:

This facility does not appear to have an operating permit issued by the Division of Drinking Water,

The one chiorination process in the water system, hypochlorite solution feed at the West Well, never received plan approval.

Demerit Points: 0

Days to Correct Deficiency; 0

SDWIS Deficiency Description: TGR

SDWIS Severity Code: Minor Deficiency

Management / Cross-Connections

Legally adopted authority statement?

Answer Recorded No

Comments: R309-105-12(2)(a) R309-105-12(2)(a)

R399-105-12(2)(a) requires each public water system to have a cross connection control program which includes a legally adopted and functional local authority statement. 10 demerit points. This deficiency should be corrected within 90 days of notification.

Notes:

Demerit Points: 10

Days to Correct Deficiency: 90

SDWIS Deficiency Description: M003 C

CCC-LACKS LOCAL AUTHORITY

Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.?

Answer Recorded No

Comments: R309-105-12(2)(d)

R309-105-12(2)(d) requires each public water system to have a cross

connection control program which includes written records of cross connection control activities, 10 demerit points. This deficiency should

be corrected within 90 days of notification.

Notes:

Demerit Points: 10

Days to Correct Deficiency: 90

SDWIS Deficiency Description: M006 CCC-LACKS WRITTEN RECORDS

SDWIS Severity Code: Minor Deficiency

Management / Cross-Connections

Documentation of on-going program enforcement? (ie records of periodic hazard assessments, annual test report, updated assembly inventory, etc.)

Answer Recorded No.

Comments: R309-105-12(2)(a) R309-105-12(2)(e) requires en

R309-105-12(2)(e) requires each public water system to have a cross connection control program which includes test history and documentation of on-going enforcement. 10 demerit points. This deficiency should be corrected within 90 days of notification.

Notes:

Demerit Points: 10

Days to Correct Deficiency:

SDWIS Deficiency Description: M007

CCC-LACKS ON-GOING ENFORCEMENT PLAN

Management / Source Protection

Comments:

Answer Recorded Yes

R309-680-7(2)(f) & 665-7(1)(c)(vi) require a public water system to

Has there been reconstruction or redevelopment of any ground-water source for which a revised DWSP Plan has not been submitted?

submit and implement a revised source protection plan within 180 days after reconstruction or redevelopment of a drinking water source. 20

demerit points. This deficiency should be corrected within 30 days.

The third welf, the Far East Well. A 10/24/04 construction and DWSP Plan exception was granted.

Demerit Points: 20

Notes:

Days to Correct Deficiency: 30

NO DWSP REVISION SUBMITTED AFTER REDEV OF SOURCE SP09 SDWIS Deficiency Description:

Page 10 of 30

4/12/2007

SDWIS Severity Code: Significant Deficiency

Sources / General / General

Are there any undocumented source(s) physically connected to the drinking water system?

Answer Recorded Yes

Comments: R309-105-6

R309-105-6 requires all construction of public drinking water facilities be approved in writing by the Division of Drinking Water, 150 demerit points. This deficiency should be corrected immediately.

The third well, the Far East Well,

Notes:

Demerit Points:

Days to Correct Deficiency:

SOURCE LACKS PLAN APPROVAL S001 SDWIS Deficiency Description:

Sources / Groundwater / EAST WELL - (Active) / Construction

Is the sanitary seal properly installed and maintained?

Comments: R309-515-6(6)(12)(a)(ii), R3(19-515-6(6)(12)(a)(ii), (b)(ii), (c)(ii), (d)(v), & (e)(iii) require a sanitary Answer Recorded No

seal be installed and maintained at the wellhead and discharge piping. 50

demerit points. This deficiency should be corrected within 90 days of

No evidence of a sentlary seal,

Notes:

notification.

Demerit Points:

Days to Correct Deficiency:

WELL LACKS PROPER SANITARY SEAL S013 SDWIS Deficiency Description:

SDWIS Severity Code: Significant Deficiency

Sources / Groundwater / EAST WELL - (Active) / Construction

is the wellhead property secured against unauthorized personnel?

Answer Recorded No.

R309-105-10(5) requires all water system facilities to be secure. 20 Comments: R309-105-10(5)

demerit points. This deficiency should be corrected immediately.

Notes:

Demerit Points: 20

Days to Correct Deficiency:

SDWIS Deficiency Description: S002

2 WELL HOUSE NOT SECURE

Sources / Groundwater / EAST WELL - (Active) / Pumps

Are cross-connections present in the well discharge piping?

Answer Recorded Yes

R309-515-6(12)(e)(iii) states the well discharge piping shall be protected Comments:

against the entrance of contamination, 5 demerit points. This deliciency

should be corrected within 30 days.

Substandard conhection to nearby outdoor infgallian.

Demerit Points: 5

Notes:

Days to Correct Deficiency:

S021

SDWIS Deficiency Description:

UNPROTECTED CROSS CONN PRESENT IN WELL HOUSE

SDWIS Severity Code: Significant Deficiency

Sources / Groundwater / WEST WELL - (Active) / Construction

is the well site in a flood plain or area likely to be flooded?

Answer Recorded Yes

R309-515-6(6)(h)(vi) & (13)(a) & (d) require the top of the well casing to Comments: R309-515-6(6)(b)(vi)

extend around the surrounding surface area to prevent source contamination. 20 demerit points. This deficiency should be corrected within 365 days of notification.

Notes

Demerit Points: 20

Days to Correct Deficiency:

SDWIS Deficiency Description: S003

ELEVATION OF WELL CASING INADEQUATE

Is the sanitary seal properly installed and maintained?

Answer Recorded No

seal be installed and maintained at the wellhead and discharge piping. 50 demerit points. This deficiency should be corrected within 90 days of Comments: R309-515-6(8)(12)(a)(ii), R3(99-515-6(6)(12)(a)(ii), (b)(i), (c)(i), (d)(v), & (e)(iii) require a sanitary notification.

Notes:

Demerit Points: 50

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S013 WELL LACKS PROPER SANITARY SEAL

SDWIS Severity Code: Significant Deficiency

Sources / Groundwater / WEST WELL - (Active) / Construction

Is the wellhead properly secured against unauthorized personnel?

Answer Recorded No

R309-105-10(5) requires all water system facilities to be secure. 20 demerit points. This deficiency should be corrected immediately. Comments: R309-105-10(5)

Notes

Demerit Points: 20

Days to Correct Deficiency: (

SDWIS Deficiency Description: S002 WELL

WELL HOUSE NOT SECURE

Sources / Groundwater / WEST WELL, - (Active) / Pumps

Are cross-connections present in the well discharge piping?

Answer Recorded Yes

Comments:

R309-515-6(12)(e)(iii) states the well discharge piping shall be protected agalnst the entrance of contamination. 5 demerit points. This deficiency

should be corrected within 30 days.

All three wells have substandard connections to impation systems.

Demerit Points: 5

Notes:

Days to Correct Deficiency: 30

S021

SDWIS Deficiency Description:

UNPROTECTED CROSS CONN PRESENT IN WELL HOUSE

SDWIS Severity Code: Significant Deficiency

Sources / Groundwater / FAR EAST WELL, - (Active) / Construction

is the well site in a flood plain or area likely to be flooded?

Answer Recorded Yes

Comments: P309-515-6(6)(v) R309-

R309-515-6(6)(b)(vi) & (13)(a) & (d) require the top of the well casing to extend around the surrounding surface area to prevent source contamination. 20 demerit points. This deficiency should be corrected within 365 days of notification.

Notes:

Demerit Points: 2

Days to Correct Deficiency: 365

SDWIS Deficiency Description: S003

ELEVATION OF WELL CASING INADEQUATE

Is the sanitary seal properly installed and maintained?

Answer Recorded No

seal he installed and maintained at the wellhead and discharge piping. 50 Comments: P309-515-6(6)(12)(a)(ii), R309-515-6(6)(12)(a)(ii), (b)(i), (c)(i), (d)(v), & (e)(iii) require a sanitary demerit points. This deficiency should be corrected within 90 days of notification.

Nates:

Demerit Points: 50

Days to Correct Deficiency: 90

SDWIS Deficiency Description: 8013 WELL LACKS PROPER SANITARY SEAL

SDWIS Severity Code: Significant Deficiency

Sources / Groundwater / FAR EAST WELL - (Active) / Construction

is the wellhead properly secured against unauthorized personnel?

Answer Recorded No

Comments: R309-105-10(5)

R309-105-10(5) requires all water system facilities to be secure. 20 demerit points. This deficiency should be corrected immediately.

Motes:

Demerit Points:

Days to Correct Deficiency:

S002 SDWIS Deficiency Description:

WELL HOUSE NOT SECURE

Sources / Groundwater / FAR EAST WELL - (Active) / Pumps

Are cross-connections present in the well discharge piping?

Answer Recorded Yes Comments:

against the entrance of contamination. 5 demerit points. This deficiency R309-515-6(12)(e)(iii) states the well discharge piping shall be protected

should be corrected within 30 days.

All three walls have substandard connections to infgation systems.

Demerit Points:

Notes:

Days to Correct Deficiency:

UNPROTECTED CROSS CONN PRESENT IN WELL HOUSE S021 SDWIS Deficiency Description: 4/12/2007

SDWIS Severity Code: Recommendation

Sources / Groundwater / EAST WELL - (Active) / Pumps

Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?

Answer Recorded No

R309-515-6(12)(e)(v) requires a well that pumps directly into the Comments: R309-515-6(12)(e)(v)

distribution system be equipped with an air release vacuum relief valve located upstream of the check valve, 6 demerit points. This deficiency

should be corrected within 90 days.

Notes:

Demerit Points; 6

Days to Correct Deficiency: 90

SDWIS Deficiency Description: SL01 NO MI

NO MEANS TO RELEASE TRAPPED AIR FROM SOURCE

Sources / Groundwater / WEST WELL - (Active) / Pumps

Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping? Answer Recorded No

Comments: R309-515-6(12)(e)(v) re

R309-515-6(12)(a)(v) requires a well that pumps directly into the distribution system be equipped with an air release vacuum relief valve located upstream of the check valve. 6 demerit points. This deficiency should be corrected within 90 days.

Notes:

Demerit Points: 6

Days to Correct Deficiency: 90

NO MEANS TO RELEASE TRAPPED AIR FROM SOURCE SLOI SDWIS Deficiency Description:

PUMP

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SDWIS Severity Code: Recommendation

Sources / Groundwater / FAR EAST WELL - (Active) / Pumps

Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?

Answer Recorded No

R309-515-6(12)(e)(v) requires a well that pumps directly into the Comments: R309-515-6(12)(e)(v)

distribution system he equipped with an air release vacuum relief valve located upstream of the check valve, 6 demerit points. This deficiency

should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

SLOI SDWIS Deficiency Description:

NO MEANS TO RELEASE TRAPPED AIR FROM SOURCE

PUMP

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / EAST WELL - (Active) / Construction

Is there a means to measure drawdown?

Answer Recorded No

R309-515-6(12)(f)(f) states provisions shall be made to permit periodic measurement of water leveles in the completed well. I demerit points. Comments: R309-515-6(12)(f)(I)

This deficiency shall be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description:

WELL LACKS A MEANS TO MEASURE DRAWDOWN

SDW1S Severity Code: Minor Deficiency

Sources / Groundwater / EAST WELL - (Active) / Pumps

Is adequate drainage provided?

Answer Recorded No

Comments: R309-515-6(13)(b) R309-515-

R309-S15-6(13)(b) states where a well house is constructed the floor surface shall be at least 6 inches above the final ground elevation and shall be slaped to provide drainage. A drain to daylight shall be provided unless highly impractical. S demerit points. This deficiency should be corrected within 365 days.

Notes:

Ground around casing is level but ponding could occur.

Demerit Points:

Days to Correct Deficiency: 365

SDWIS Deficiency Description: S022

LACK OF DRAIN TO DAYLIGHT FLOOR DRAIN

Pump discharge piping: a smooth-nosed sampling tap?

Answer Recorded No

in order of placement from the wellhead) a smooth mosed sampling tap, a R309-515-6(12)(e)(iv) states the discharge piping shall he equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be Comments: R309-515-6(12)(e)(iv)

corrected within 90 days.

Notes:

Demerit Points: 1

Days to Correct Deficiency: 90

NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE SDWIS Deficiency Description:

PIPING

Page 19 of 30

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / EAST WELL - (Active) / Pumps

Pump discharge piping: a positive-acting check valve between the pump and the isolation valve?

Answer Recorded No.

R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with Comments: R309-515-6(12)(e)(m)

(In order of placement from the wellhead) a smooth nosed sampling tap, a check valve, aprosance guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes:

Demeril Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S024

NO CHECK VALVE ON DISCHARGE PIPING

Pump discharge piping: pressure gauge?

Answer Recorded No

(in order of placement from the wellhead) a smooth nosed sampling tap, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. 1 demerit point per item missing. This deficiency should be Comments: R309-515-6(12)(e)(iv)

corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDW1S Deficiency Description: S025

NO PRESSURE GAUGE ON DISCHARGE PIPING

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / EAST WELL - (Active) / Pumps

Pump discharge piping: flow meter?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv) R309-515-6(12)

R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with (in order of placement from the wellhead) a smooth nosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description: S026

NO FLOW MEASURING DEVICE ON DISCHARGE PIPING

Pump discharge piping: isolation gate valves?

Answer Recorded No

Comments: R309-515-6(12)(e)(h) R309-515-6(12)/e)/

R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with (in order of placement from the wellhead) a smooth rosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes

Demerit Points: 1

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S027

NO SHUT OFF VALVE ON DISCHARGE PIPING

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / WEST WELL - (Active) / Construction

is there a means to measure drawdown?

Answer Recorded No

R309-515-6(12)(f)(f) states provisions shall be made to permit periodic Comments: R309-515-6(12)(f)(f)

measurement of water leveles in the completed well. I demerit points. This deficiency shall be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S015

S015 WELL LACKS A MEANS TO MEASURE DRAWDOWN

Sources / Groundwater / WEST WELL - (Active) / Pumps

is adequate drainage provided?

Answer Recorded No

Comments: R309-515-6(13)(b) R309-515-6(1

R309-515-6(13)(b) states where a well bouse is constructed the floor surface shall be at least 6 inches above the final ground elevation and shall be sloped to provide drainage. A drain to daylight shall be provided unless highly impractical. 5 demerit points. This deficiency should be corrected within 365 days.

Ground is level near wellhead but ponding is possible.

Demerit Points: 5

Notes:

Days to Correct Deficiency: 365

SDWIS Deficiency Description:

LACK OF DRAIN TO DAYLIGHT FLOOR DRAIN

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / WEST WELL - (Active) / Pumps

Pump discharge piping: a smooth-nosed sampling tap?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv) p

R309-515-6(12)(c)(iv) states the discharge piping shall be equipped with (in order of placement from the wellhead) a smooth nosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S023

NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE PIPING

Pump discharge piping: a positive-acting check valve between the pump and the isolation valve?

Answer Recorded No

(in order of placement from the wellhead) a smooth nosed sampling tap, a R309-515-6(12)(e)(tv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deliciency should be corrected within 90 days. Comments: R309-515-6(12)(e)(iv)

Notes:

Demerit Points: 1

Days to Correct Deficiency: 90

NO CHECK VALVE ON DISCHARGE PIPING S024 SDWIS Deficiency Description:

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / WEST WELL - (Active) / Pumps

Pump discharge piping: pressure gauge?

Answer Recorded No.

(in order of placement from the wellhead) a smooth nosed sampling tup, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be Comments: P309-515-6(12)(e)(iv)

corrected within 90 days.

Notes

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S025

NO PRESSURE GAUGE ON DISCHARGE PIPING

Pump discharge piping: flow meter?

Answer Recorded No

(in order of placement from the wellhead) a smooth nosed sampling tap, a R3(9-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I denserit point per item missing. This deficiency should be corrected within 90 days. Comments: R309-515-6(12)(e)(lv)

Notes:

Demerit Points:

Days to Correct Deficiency: 90

NÓ FLOW MEASURING DEVICE ON DISCHARGE PIPING SDWIS Deficiency Description:

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / WEST WELL, - (Active) / Pumps

Pump discharge piping: isolation gate valves?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv)

(in order of placement from the wellhead) a smooth nosed sampling tap, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, spressure guage, a means of measuring flow and a shutoff valve, I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes:

Demerit Points:

8 Days to Correct Deficiency:

NO SHUT OFF VALVE ON DISCHARGE PIPING S027 SDWIS Deficiency Description:

Sources / Groundwater / FAR EAST WELL - (Active) / Construction

Is there a means to measure drawdown?

Answer Recorded No

Comments: R309-515-6(12)(f)(f)

R309-S15-6(12)(f)(f) states provisions shall be made to permit periodic meanirement of water leveles in the completed well. I demerit points.

This deficiency shall be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

WELL LACKS A MEANS TO MEASURE DRAWDOWN S015 SDWIS Deficiency Description:

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SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / FAR EAST WELL - (Active) / Pumps

Is adequate drainage provided?

Answer Recorded No.

Comments: R306-515-6(13)(b) R309

R309-515-6(13)(h) states where a well house is constructed the floor surface shall be at least 6 inches above the final ground elevation and shall be sloped to provide drainage. A drain to daylight shall be provided unless highly impractical. 5 demerit points. This deficiency should be corrected within 365 days.

Notes.

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description: S022

LACK OF DRAIN TO DAYLIGHT FLOOR DRAIN

Pump discharge piping: a smooth-nosed sampling tap?

Answer Recorded No

in order of placement from the wellhead) a smooth mised sampling tap, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days. Comments: A309-515-6(12)(e)(W)

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S023

NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / FAR EAST WELL - (Active) / Pumps

Pump discharge pipring: a positive acting check valve between the pump and the isolation valve?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv)

(in order of placement from the wellhead) a smooth nosed sampling tap, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per Item missing. This deficiency should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description:

NO CHECK VALVE ON DISCHARGE PIPING

Pump discharge piping; pressure gauge?

Answer Recorded No.

in order of pincement from the wellhead) a smooth nosed sampling tap, a R309-S15-6(12)(e)(iv) states the discharge piping shall be equipped with Comments: R309-515-6(12)(e)(lv)

check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be

corrected within 90 days.

Notes:

Demenit Points:

8 Days to Correct Deficiency:

NO PRESSURE GAUGE ON DISCHARGE PIPING SDWIS Deficiency Description:

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / FAR EAST WELL - (Active) / Pumps

Pump discharge piping: flow meter?

Answer Recorded No

(in order of placement from the wellbead) a smooth nosed sampling top, a R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be Comments: R309-515-8(12)(e)(lv)

corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

NO FLOW MEASURING DEVICE ON DISCHARGE PIPING S026 SDWIS Deficiency Description:

Pump discharge piping: isolation gate valves?

Answer Recorded No

(in order of pincement from the wellbead) a smooth nosed sampling tap, a R369-515-6(12)(e)(iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days. Comments: A309-515-6(12)(e)(iv)

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: \$027

NO SHUT OFF VALVE ON DISCHARGE PIPÍNG

Page 28 of 30

SDWIS Severity Code: Minor Deficiency

EAST WELL . (Active) / Filtration / Cartridge

Is disinfection being used to prevent fouring and reduce microbial pass-through?

Answer Recorded No

Comments:

Notes:

Demerit Prints:

Days to Correct Deficiency:

SDWIS Deficiency Description: T031

NO DISINFECT USD-REDUCE FOULING/MICROBIAL PAS

WEST WELL - (Active) / Chlorination / General

Is there a means to measure the volume of water treated?

Answer Recorded No

Comments: R309-520-10(1)(i) R369-520-10(1)(i) res

R309-520-10(1)(i) requires a means to measure water flow to be treated. 2 demerit points. This deficiency should be corrected within 90 days of

netification.

None of the three wells has a flowmeter.

Demerit Points:

Notes:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: TD79 NO MEA

NO MEANS OF MEASURING WATER TREATED WITH CHLORINE

SDWIS Severity Code: Minor Deficiency

WEST WELL . (Active) / Chlorination / General

Are there an adequate number of disinfection residual sample sites and do they provide a representative sample of system conditions?

Answer Recorded No

R309-210-8(3)(a)(i) requires sampling of disinfection residual at Comments: R309-210-8(3)(a)(l)

representative sites in the distribution system. It appears your sample site selection is inadequate, demerit points will be assessed based on your

quarterly treatment reports.

Notes:

Operator has no sampling site map.

Demerit Points:

Days to Correct Deficiency:

D017 SDWIS Deficiency Description:

INADEQUATE SAMPLE SITES FOR RESIDUAL TESTING

WEST WELL - (Active) / Chlorination / Hypochlorination

Are hypochlorite feeders of the positive displacement type?

Answer Recorded No

Comments: R309-520-10(1)(b)

feed gas type chlorinators, direct-feed gas type chlorinators or hpochlorite R309-520-10(1)(b) states chlorination feeding equipment shall be solutionliquid feeers of a positive displacement type, 10 demerit points. This deficiency should be corrected within 90 days of notification.

The hypochorite feed pump is a disphragm pump. This is not a deficiency!

Demerit Points:

Notes

6 Days to Correct Deficiency:

SDWIS Deficiency Description:

CL2 HYPO FEEDERS ARE NOT POS. DISPLACEMNT TYPE TD51

Date of Survey: March 14, 2007

DRINKING WATER FACILITY EVALUATION - FIELD NOTES

Note: This Sanitary Survey Form is no longer the official sanitary survey report format. In 2006, the Division of Drinking Water migrated sanitary survey reports to elelectronic sanitary survey (ESS) format. These 2006 field notes are for background informational puroses only.

1. Administrative Issues

(Office Interview)

System Name:	New Haven Girls Home, Spanish Fork	S	System #: 25159
Name of Surveyor:	D		
Water System Repres	sentative(s)/Others accompanying survey:		
	Jim Hone	Phone:	801-380-4375
	Casey Kilpatrick	Phone:	801-380-4377
	Dustin Tibbetts	Phone:	801-380-4377
	2096 East 7200 South	off c1	
	Spanish Fork, UT 84660		
	<u>Plan Review</u>		
	····· Request for Exception to Rules **		
2004: Exception reque	st for well construction and source protection. A	oproved 10/24	/04.
Note the letter states	that the exception is valid until Spanish Fork City	provides wate	er to the area or
until September 30, 200			
Note: The water system	m asked for, and received, a three-year exception	n (expires 9/30	0/07) to tide it over
until Spanish Fork City	water system expansion to new service areas we	ould run past t	he New Haven Girls
Home and allow aband	onment of the New Haven Girls Home wells in fa	vor of water p	urchase from
Spanish Fork. Discuss.	ion with Richard Heap (801-798-5000) at Spanisl	n Fork City on	the day after:
\$60,000			

Spanish Fork City's waterlines nearest the New Haven Girls Home is still 1500 feet away. Although
dovelopment is projected along the route to the Home, the City is not ready to install new waterline
until a development can be billed for the extension. The City is willing to extend service to the New
Haven Girls Home if somebody pays the City's cost.
naven dine nome
2006 Survey
Sys. #25159 is the New Haven Girls Home/Spanish Fork.
Sys. #25160 is no longer listed in DDW files. Sys. #25160 may have referred to now #25159's East We
Sys. #25161 is the New Haven Girls Home/Saratoga Springs.
The New Haven Girls Home is owned by Solacium (Real Estate) Holdings, a for-profit company. The
facility property used to be a big orchard and farm reputedly reknown for some of Utah's best produce.
The property has a history that includes ownership at various times by the Copling family and then
Paul Whiting.
The Spanish Fork facility started out a number of years ago as the project of the late Mark McGregor
and his wife, who were dedicated to establishment of a facility for troubled girls. The McGregor family
and his wife, who were decided. purchased and refurbished the old farm house on the then-orchard property, named it the West House,
and began facility operation with 8 girls in residence. The McGregor family then built an additional
residential structure, the East House, and increased the total facility capacity to 16 girls.
residential structure, the Editional Structure and the Structure a
After diagnosis of his fatal brain cancer a few years ago, Mark McGregor fulfilled his wish that the facili
carry on by selling the property and assets to Solacium (Real Estate) Holdings Company. Solacium's
Val Christenson then built the Far East House, with 16-girl capacity, to bring the total capacity to 32 gir
Despite the house capacities of record:
West House (Mother Theresa Hose) : 8 girls
East House (Eleanor Roosevelt House): 8 girls
Far East House (Sacajawea House): 16 girls
the operator stated that there are 42 girls and 170 support staff (e.g., therapists and teachers).

March 14, 2007

Date of Survey: ___

Date of Survey: March 14, 2007

There are five wells on the property, two of which are recognized by the Division as approved public water sources. Three wells, however, are used for drinking water:

West Well (DDW WS001) at NE corner of West House
East Well (DDW WS002) at SW corner of East House

Far East Well (not approved but nevertheless being used) on south side of Far East House

Orchard Well (abandoned)

Stinky House Well (abandoned)

After the 2007 survey, the Division assigned identifier WS003 to the unapproved Far East Well. It appears that none of the sources — WS001, WS002, or WS003 — ever received construction approval. It is likely that there were five wells on the original farm property and over the years there has been rehabilitation in succession of three of these wells (without Division approval) — west Well, then east Well (2001? 2002?), and finally Far East Well (2005? 2006?).

The New Haven Girls Home asked the Division for a Rule exception in 2004 to allow use of the west and east wells until such time as Spanish Fork City's water system expanded to the area. The request mentioned no later than 2007 at worst. But 2007 is here now and the City water system is still 1500 feet away. Although the 2004 exception request was granted, it applied to only the West and East wells. The Far East well had not been rehabilitated (without Division approval) at that time.

Until the facility owners rehabilitated the Far East Well and (inappropriately) put it into drinking water service, it too was simply an abandoned well on the property. All of the wells are apparently fairly shallow but only the West Well has chlorination. The operator believes that the State, in fact, mandated chlorination of this well several years ago.

The West Well may date back 50 years. Both the West Well and the East Well have taste and odor problems at least partially caused by iron and sulfide. Interestingly, the operator has heard that the west Well had no such water quality problems until the East Well was drilled.

Each of the three active wells has a separate distribution system. All three drinking water wells also supply irrigation systems without any of the backflow prevention mitigations required by State Rule. There are two emergency power generators. The West Well has a fixed emergency power generator and a portable, second emergency power generator is available and would probably be used at the Far East Well if the West Well alone could not meet water demand in an emergency.

DDW records show one chlorinator on site at the East Well but it is actually at the	ne west vveil. The
operator believes that there is a letter somewhere in the facility records wherein	the Stated ordered
chlorination of the West Well.	
CHIOTHERIOT OF MOUNTED	
There are two large pools on site that could be tapped by fire pumper trucks in	an emergency. The
West House pool is 250,000 gallons and is operated as a swimming pool for the	girls in summers with
an erosion feeder for chlorine tablets, pumps, filters, and muratic acid (HCI) to F	eep pH below 8+ where
algae otherwise fluorish. The East House pool is 100,000 gallons and is referre	ed to as "the fish pond."
The operator, Jim Hone, attended an Operator's class in Wellington, UT, in Ma	rch 2007.
2003 Survey	
System #25159 includes a residence/office building and a separate school build	ding.
Sulfur-associated taste and odor is treated via filtration and softening in the res	idence. Untreated water
is served to the school building. Some water service is provided at horse barns	s where there are
satisfactory air gaps for backflow prevention.	<u> </u>
	3 = 70 (0)
The water system has a current Emergency Response Plan and a written Fina	ncial Management Plan.
10 points will be credited to a water system with a current Emergency Respons	o or 10 Points:0
10 points will be credited to a water system which has a written Financial Mana	agement Plan; including
an appropriate rate structure, infra-structure replacement plan, master plan.	0 or 10 Points: 0
	Points Credited:

Date of Survey:	March 14, 2007	

Service Data

g list of categor	aints received and valid ries? No number of complaints rece	✓ Unkno	wn	aling
g list of categor	ies?	✓ Unkno	wn	
" (Indicate the n				
	number of complaints reco	eived in each category	,) **	
			9	
	Taste and Odor		Pressure	
ater System Su	uspected)	Waterborne Dis	ease Outbreak	
Servic	æ interruptions or war	,, Ou.2900		
				_
	Source Monito	oring		
		odogusto ba	deriological sampli	na l
d to water sys	item which does not ha	ve an acequate bat	steriological sampli	9
d)] -	and the second		0 or 5 Points:	5
			0 0, 0 , 0	
rk up a site plat	n with sampling location	ns		
ed to any comm	nunity or nontransient r	noncommunity wate	r system which doe	? \$
ead/copper sar	mpling site plan. [R309-	210-6(3)(a)].		
To be	fixed by:		0 or 5 Points:	0
	1.			
				_
		11		
	Services Ser	Service Interruptions or Water Source Monite ed to water system which does not ha d)] To be fixed by: rk up a site plan with sampling location ed to any community or nontransient read/copper sampling site plan. [R309-	Source Monitoring ed to water system which does not have an adequate back by: To be fixed by: rk up a site plan with sampling locations	Source Monitoring ed to water system which does not have an adequate bacteriological sampling) To be fixed by: O or 5 Points: ork up a site plan with sampling locations ed to any community or nontransient noncommunity water system which does lead/copper sampling site plan. [R309-210-6(3)(a)].

Date of Survey:	March 14, 2007
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Cross Connection

50 points total, or 10 points per element, will be assessed to a water system that does not have any of the below-listed components of a cross connection control program. [R309-105-12]

A water system which only has some of the components of a cross connection control program shall be assessed the following number of points.

control program snall be assessed the following hur	tiber of points.	
10 points will be assessed to a water system which does not have connection program (i.e., ordinances, bylaws or policies).	e local authority to enforce a cross	8
To be fixed by:	0 or 10 Points:	0
10 points will be assessed to a water system which does not pro material presentations on an annual basis.	vide public education or awareness	S
To be fixed by:	0 or 10 Points:	10
10 points will be assessed to a water system which does not have of cross connection.	e an operator with training in the a	rea
To be fixed by:	0 or 10 Points:	0
10 points will be assessed to a water system with no written reco such as backflow assembly inventories, hazard assessment, and		
To be fixed by:	0 or 10 Points:	10
10 points will be assessed to a water system which does not have	e an on-going enforcement activity	y plan.
To be fixed by:	0 or 10 Points:	10
Comments: Operator Jim Hone has backflow experience/training	ng from employment in the hospital	
industry. All three wells are directly connected to irrigation syste	ms and there is little or no informa	tion
on the below-ground plumbing. Stop-and-waste valves, which a	re inadequate for backflow prevent	ion,
were noted at each wellhead.		
Total	Administrative Issue Points:	30

DRINKING WATER FACILITY EVALUATION

2. Well

System Name:	New Haven	Girls Home, Spenii	sh Fork	System #:	251 <u>59</u>
Source Number:	WS001	Source Name:	East Well (new	ver than WS002 W	est Well)
Location:	southwest corner of	residence	Period of	i Use: Year	'Roun d
Latitude:	see below		Longitude:	see below	
NAD 83	NA	D 27	PLS		
40" 6" 1.03322" (40.10	028701°) < 40° 6′ 1.19	3" (40.10033") <	S 210' W 1647' NE S	28 T08S R03E	15.
111" 36" 12.67365" (111.	6035205°) 111° 36′ 9.965	5" (111.60277")	UL 9690		
			No 2007 GPS Read	ngs	
		2006 Surve	Y		
The East Well proba	ably dates back to wh	en the property wa	s a farm and orcha	ard. It was suppos	edly
rehabilitated around	2000 or 2001. GPS	data collected on ti	he day of the surve	ey suggests that th	e East
Mall is probably the	well described in Wa	iter Right 51-4917	with the Division of	Water Rights. Th	at water
right is owned by LA	AMC, L.L.C., Box 502	38, Orem, UT 8460	5-0238. The water	r right information	for
1A/P 51-4917 on the	DWRi web site lists a	a 6-inch well at 285	' depih drilled in 19	382. The web pag	e also
	i has a well log from t				
The secion stickum	out of the grassy area	a around the well is	at least 24 inches.	. The sanitary sea	ıl, if
The casing silckup	suspect. The casing	appears to be sim	ply driven into the	earth with no evid	lence
-t arouting the annu	lar space, if there wa	s anv. between the	casing external s	urface and the bor	ehole
in the ground.	nar opace, ii				
	ough the casing top to	the submersible o	ump passes throu	gh a non-waterligh	nt slot in
The power reed thro	ough the casing top to	cone caulked of sit	nilar	-	
the casing cap. The	e slot needs to be silid	JOHE CODINEC, OF SIT			
There is an irrigation	n system hookup at a	stop-and-waste va	live at the wellhead	d There is no bac	kflow
prevention device b	etween the drinking v	valer system and th	ne irrigation water :	system.	
The series to the	school apparently tie	es into the well casi	ng below grade, a	s would be typical	of a
the waterline to the	t it is unlikely that the	connection is any	where near as sop	histicated as a pitl	ess

	ot from the casing stickup and on the line that appears to head t	to £ast House. There is
no evidenc	ce to suppost that this connection meets Division standards either	er.
	2003 Survey	
The well is	200-250 feet deep. The submersible pump is set at approxima	tely 130 feet. The pump is
eplaced e	very 2-3 years because of the corrosivity of the water.	
The wellhe	ead needs a smooth-nosed sampling tap, a flow-measuring devic	ce, and a shut-off valve.
Nellhead p	plumbing is in the residence basement. The wellhead needs a s	mooth-nosed sampling tap,
a flow-mea	esuring device, and a shut-off valve.	
	an Approval received for this Well?	enter the well. A properly
	To be fixed by:09/01/07	0 or 50 Points: 50
	There is no evidence of a well seal. The casing appears to be	
	sidewalls. The casing may have just been pounded into the gi	round.
). Proper l	Lubrication Oil [R309-102-(4)(7) & R309-204 Future 515 -(8)(2)] 25 points will be assessed for any well that requires oil lubricat mineral grade suitable for human consumption.	ion if the oil used is not
		0 or 25 Points: 0
	To be fixed by:	O OI ES FORMS.
	N/A - submersible, water-lubricated pump	our Es Folins.

Date of Survey:_

	factors which may jeopardize the integrity of the well ground, identify any conditions or factors which coul To be fixed by:	d jeopardize the well's samilary integrity.
Well D	Discharge Piping Equipment [R909-204]Future 515]-6(12)(1 point assessed for each of the following items whi discharge piping: (1) a smooth nosed sampling tap (4) a flow measuring device and/or (5) shut off valve SERVICEABLE, AND IDENTIFIY IF THEY ARE NO	(2) a check valve (3) pressure gauge e. CIRCLE ITEMS NOT FOUND OR NO T IN THE ORDER LISTED.
	To be fixed by:	
	Not one of these items is apparent at the wellhead.	is is
Scree	ning of Well Casing Vent R309-515-6(12)ie: Guidance 5 points will be assessed for a well casing vent that mesh screen.	is not properly covered with a number 14
	To be fixed by:	0 or 5 Points:5
	no apparent well casing vent	
	The appearant were desiring to	
. Disch	arge Piping Air Vent [R309-204(Fedure 535-6(12)(e)(v)] 1 to 5 points assessed for each well that does not h piping cirectly into a distribution system. Relief valv screened with number 14 mesh screen. Integrity of	e bibling wast be tollied down and brobe
		12
	To be fixed by:09/01/0	0 to 5 Points:5

March 14, 2007

Date of Survey:

			Date of Survey:		Marci	h 14, 2007
					50	
	n [R309-204]Future 518 assessed for well hous table. Where does the	ses that do no		drain to dayligh	t floor drai	in that
	To be fixed by			01	o 5 Point	s:0
No wellhouse	SI.					
			No.			
					2	
				Total Points	Assesse	d: <i>65</i>
	-					
ADDITIONAL REQUIRED	INFORMATION	(no points a	ssessed)			
Is this source covered in a	source protection pla	in?		✓ Yes	☐ No	
ls a current well log availal	ble for this well?			✓ Yes	No	
Current flow rate:	gpm		Size of	Well Casing:	8	inches
Type of Pump:	Vertical Turbine	Yes		Summersible	✓ Yes	
Brand/Model of Pump:	Midwest-Dicken	MFG	Discharg	ge piping size:	6	inches
Brand/Model of Motor:		7		Horsepower:		5
				Voltage:		
ls there a serviceable pres well pump discharge?		Yes,		Yes, Stagnatio		☑ No
	* note stag	nation pressure	includes veid	ocity head but suc	h gauges ar	e uncommon
If yes:(ps	s) off	(gpm)	Static	. Dynamic		
(p:	si)	(gpm)	Static	✓ Dynamic	P.	
(ps	51)	(gpm)	Static	Dynamic		

		Date of Surv	ey: Marcl	14, 2007
there a p	ump-to-waste line with an adequate air gap	(twice pipe diameter)?	Yes	√ No
stance to	Surface Water	☐ <100 ft. ☐ 100 to	200 ft. ☑ >	> 200 ft.
here is a	Pump House, is it secure? Does it have adequate heating? Does it have adequate lighting? Does it have adequate ventilation? Is floor elev.at least 6 in.above the surrout	nding ground elevation?	☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	No No
her Obse				

Date of Survey:	March 14, 2007

DRINKING WATER FACILITY EVALUATION

2. Well

System Name:	New Have	n Girls Home, Spanis	sh Fork	System #:
Source Number:	W\$002	Source Name:	West Well (older than	WS001 East Well)
Location:			Period of Use:	Year 'Round
Latitude:	see below		Longitude:	see below
NAD 83	N/	4D 27	PLS	
40° 6' 2.385806" (40.10)	066") -> 40" 6" 2.:	54562" (40.10070712°)	> 5 68 46' E 741 65' N4 S28	TOBS ROJE
111° 36' 16.088688" (711.	(0446908*) 111°36'13	.37978" (111.6037166")		
2007 GPS Readings				
		2006 Survey	(10	
The operator reports	that the West Well	may date back 50 y	ears and was probably th	e first well drilled
on the property back	when it was an orc	hard and farm. GPS	data collected on the da	y of the survey
supprests that this we	Il is probably the wi	ell described in Wate	er Right 51-4729 with the	Division of Water
Rights. That water no	ht is owned by LAN	MC, L.L.C., Box 5023	38, Orem, UT 84605-023	8. The water right
information for WR 5	1-4729 on the DWF	Ri web site lists an 8-	inch well at 280' depth,	There is no entry
in the information for				
The 2003 survey redi	ort of a brick "struct	ure" at the well is in:	accurate. The casing pro	trudes from the
around in a small so	uare collar about 18	9"' x 18"'. This four-s	sided collar may be const	ructed of cinder
block bricks but it is t	ardly a "structure."	It looks like a simp	e, bottomiess vaive box.	
The series of olders is	substandard nerh	ans only 6 inches in	the 18-inch deep, below-	grade valve box.
The casing suckup is	is below around in	an undrained "vault.	The valve box is stuffer	d with some
Thus, the casing top	ered at ground level	with an unsecured	piece of plywood that is v	veighted down by 3-4
rocks. The operator	reports that the inst	ulating foam is nece	ssary to prevent freezing	at the wellhead.
There is a plugged po	ort in the casing car	o. This port appears	to be the type through w	hich at one time
there may have been	an air tube type of	depth-to-water mea	surement. The flat powe	r ribbon slot through
the casing cap is not	water tight. The slo	ot needs to be plugg	ed with silicone caulk or	similar.

Date of Survey:	March 14, 2007
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The 8-inch well casing stickup discharges through a 1-1/2" brass nipple that then couples to 1-1/2" galvanized iron pipe that heads to West House's basement. The line has switched to 1-1/2" copper by the time it enters West House's basement.

The West Well is plagued by bad taste probably due to iron and sulfide in the well water. There is a chlorination process ther (which the operator said was dictated by the Division some years ago due to bad bacteriological sample results. The chlorine solution pump is a Chem-Tech Metering Pulsafeeder pump model from Punta Gorda, FL. The pump takes suction from a 30-gallon carbuoy of concentrated sodium hypochlorite solution. There was no label or NSF sticker on the carbuoy. The operator said that it may be T-Chlor from Thatcher Chemical Company in Salt Lake City. The chlorine metering pump powers up whenever the pressure-trol device at the well pump control box signals that the well pump has turned on.

The operator claims that the West Well never had taste and odor problems until the East Well was renovated.

There are two Amtrol WX-350 hydropneumatic (bladder) tanks on the waterline downstream of chlorination. The operator reports that it takes less than a minute of well pumping to refill the hydropneumatic tanks when low pressure signals the well pump to turn on. The cycle is 40 to 60 psi.

The outlet line from the hydropneumetic tanks tees to send water for cold water uses directly throughout the rest of the house and water for the hot water heaters first through a filter cartridge and water softener.

The off-the-shell cartridges fit in an approximately 36-inch long x 4-inch diameter cylindrical housing.

The operator agreed to find information on the cartridge brand, pore size, etc., and forward it to the Division.

The water softener is a salt exchange-based unit.

There is no flowmeter on the waterline in the basement of West House from West Well. There is a sizeable drain in the basement floor.

The operator asked questions about the feasibility of installing reverse osmosis treatment. It was brought to his attention that there is sometimes a rather voluminous flow of reject water from RO, as much as 90 percent of the influent flow in some cases. Depending on the water quality of the RO reject water, it might be possible to discharge it to West House's 100,000 gallon "fish pond."

March 14, 2007 Date of Survey: 2003 Survey The wellhead needs a smooth-nosed sampling tap, a flow-measuring device, and a shut-off valve. The casing needs to stick up at least 18 inches above ground. The wellhead is surrounded by a brick enclosure. The top of the well casing is the same absolute elevation as the natural ground elevation but the brick enclosure's floor has been dug out so that the casing sticks up 18 inches above the resulting floor level in the brick enclosure. Wellhead plumbing is in the residence basement. The wellhead needs a smooth-nosed sampling tap, a flow-measuring device, and a shut-off valve. The well is 200-250 feet deep. The submersible pump is set at approximately 130 feet. The pump is replaced about every 3 years because of the corrosivity of the water. Fire Department officials supposedly will not require additional storage as long as the population of the facility does not exceed 18 persons. The facility includes an uncovered storage pond for fire emergency water. A. Was Plan Approval received for this Well? □ Unknown ☐ No Yes [R309-204] Future 5151-(6)(12)] 50 points will be assessed for any well that does not have a sanitary seal or has unsealed B. Well Seal opening in the top of the well that could allow contamination to enter the well. A properly installed and maintained pitless adapter will meet this criteria if it has been approved by the Division of Drinking Water for the specific installation. 0 or 50 Points: 09/01/07 To be fixed by: There is no evidence of a well seal. The casing appears to be flush against the borehole sidewalls. The casing may have just been pounded into the ground. C. Proper Lubrication Oil [R309-102-(4)(7) & R309-204[Future 515[-(8)(2)] 25 points will be assessed for any well that requires oil lubrication if the oil used is not mineral grade suitable for human consumption. 0 or 25 Points: 0 To be fixed by: N/A - submersible, water-lubricated pump

ų.	tion of Top of Well Casing {R309-204{Future 515]-(6)(6)(b)(vl) & R309-1 to 20 points will be assessed for any casing that does not exconcrete floor or 18" above the ground, or five feet above the I be assessed if a properly installed and approved pitless adapt will be determined by degree of exposure to flooding, drainage factors which may jeopardize the integrity of the wellhead. If ir ground, identify any conditions or factors which could jeopardize	tend at least 12" above the highest flood level. No per is used. Range of point e, condition of floor and consufficient height above for the second the se	he points nts wi other loor o
	To be fixed by:	0 to 20 Points:	0
Wall D	ischarge Piping Equipment [R309-204 Future 515-6(12)(e)(iv)]		
A GII D	1 point assessed for each of the following items which are not discharge piping: (1) a smooth nosed sampling tap (2) a check (4) a flow measuring device and/or (5) shut off valve. CIRCLE SERVICEABLE, AND IDENTIFIY IF THEY ARE NOT IN THE (k valve (3) pressure gaug ITEMS NOT FOUND OF	ge
	To be fixed by:	0 to 5 Points:	5
	Not one of these items is apparent at the wellhead.		
creen	ing of Well Casing Vent [R309-515-6(12)ter Guidance] 5 points will be assessed for a well casing vent that is not propermesh screen.	erly covered with a numb	er 14
	To be fixed by:	0 or 5 Points:	5
	no apparent well casing vent	- V	
ischa	rge Piping Air Vent [R309-204[Future \$15]-6(12)(e)(v)] 1 to 5 points assessed for each well that does not have an air repiping directly into a distribution system. Relief valve piping must screened with number 14 mesh screen. Integrity of screen must	st be turned down and pr	
	To be fixed by: 09/01/07	0 to 5 Points:	5

Date of Survey:

	Date of Surv	ey: March	14, 2007
H. Well House Floor Drain [R309-204[Future 515]-6(13)(b)] 1 to 5 points assessed for well houses that do not is fully serviceable. Where does the drain end up?	have a drain to day	rlight floor drain	that
To be fixed by:		0 to 5 Points	0
No wellhouse			
	Total Po	ints Assessed	i: <u>65</u>
	22		
ADDITIONAL REQUIRED INFORMATION (no points as	sessed)		
Is this source covered in a source protection plan?	✓ Yes	☐ No	
Is a current well log available for this well?	Yes	☑ No	
	Size of Well Cas	sing: <u>8</u>	inches
T share Ver	3 Summer	_	
Type of the same	Discharge piping		inches
Brand/Model of Pump:			
Brand/Model of Motor:		wer:	
	Volt	ag e :	
Is there a serviceable pressure gauge on the Yes, \$		9.000	✓ No
well pump discharge?	notudes velocity head t	out such gauges ar	€ uncommon
If yes:(DS)Off(gpm)	Static [_]	yna m lc	
(psi)(gpm)	Static C)ynamic	
(psi) (gpm)	Static 0	Dynamic	

	Date of Surv	ey: Marc	h 14, 2007
ls there a p	ump-to-waste line with an adequate air gap (twice pipe diameter)?	☐ ¥es	.✓ No
Distance to	Surface Water	200 ft. 🔃 :	200 ft.
If there is a	Pump House, is it secure? Does it have adequate heating? Does it have adequate lighting? Does it have adequate ventilation? Is floor elev.at least 6 in above the surrounding ground elevation?	Yes Yes Yes Yes Yes	No No No No
Other Obse	vations/Comments for This Well:		

DRINKING WATER FACILITY EVALUATION

2. Well

System Name:	New Haven	Girls Home, Spani	sh Fork S	system #:25159
	WS003	Source Name:	Far East	Well
ource Number:	743000		Period of Use:	Year 'Round
ocation:				balaw
Latitude:	see below		Longitude:	see below
NAD 83		NAD 27	PLS	
40° 6' 1,22657" (40.1003	4°)> 40° 6' I	.38633" (40.100385°) —	> S 188.53' E 1154.70' N4 S28	T08S R03E
11° 36' 10.760846" (111.6)		.05234" (111.6022368°)		
2007 GPS Readings				
		2006 Surve	YY	
	and by Bo	hed Perry Pump Co	ontractor (801-358-7667).	The contractor
the Far East Well wa	s renovated by the	closped out the well	casing. The casing size i	s 6 inches.
supposedly replaced	the old purilp allo	cleaned out the tron		
	u of the orace) are	ea around the well is	at least 24 inches. The s	anitary seal, if
the casing stickup of	If of the grassy are	on appears to be sir	nply driven into the earth w	vith no evidence
here is one at all, is s	suspect. The case	as any between the	e casing external surface a	and the borehole
- THAT I STUDY AS	ar space, ii iliele w	as any, bemeen		
n the ground.				
	t as bankup of	n stop and waste v	alve at the wellhead. Then	re is no backflow
There is an irrigation	system nookup ar	water system and I	he irrigation water system.	
prevention device bet	lween the annking	Water System und		
		a clickup and on the	line that appears to head	to Far East House.
There is a hand hydr	ant near the casing	is segmention meets	Division standards either.	
There is no evidence	to suggest that the	is connection meets	Division standards either.	
	tip to all on the	Ear Fast Well dist	ribution system. Rather, a	VFD for the
There is no hydropne	eumatic tank on the	m the Far Fast Ho	use waterlines and adjusts	the pump motor
pump motor takes a	pressure signal tro	in the Fai Last Noc		
speed to ramp up or	down as needed.			

i	opening in the top of the well that could all nstalled and maintained pitless adapter w Division of Drinking Water for the specific	vill meet this crite	n to enter ria if it has	the well. A proper been approved by	y the
	To be fixed by:	09/01/07		0 or 50 Points:	50
	There is no evidence of a well seal. The o	casing appears to	be flush a	against the boreho	ie
5	sidewalls. The casing may have just been	n pounded into th	e ground.		
. 2	ubrication Oil [R309-102-(4)(7) & R309-204! 5 points will be assessed for any well tha nineral grade suitable for human consum	t requires oil lubr	ication if th	ne oil used is not	
	To be fixed by:		-	0 or 25 Points:	0
٨	I/A - submersible, water-lubricated pump				
Elevation	to 20 points will be assessed for any cas	ing that does not	extend at	re 515]-(6)(13)(a)&(d)] least 1.2" above th flood level. No p	ne .
Elevation of the first term of		ing that does not five feet above the proved pitless add to flooding, drain of the wellhead.	extend at ne highest apter is use age, condi If insufficie	least 12" above the flood level. No posed. Range of pointion of floor and over the ight above floor.	ne oints hts will ther oor or
Elevation of the first term of	to 20 points will be assessed for any cas oncrete floor or 18" above the ground, or e assessed if a properly installed and appill be determined by degree of exposure actors which may jeopardize the integrity of	ing that does not five feet above the proved pitless add to flooding, drain of the wellhead.	extend at ne highest apter is use age, condi If insufficie rdize the w	least 12" above the flood level. No posed. Range of pointion of floor and over the ight above floor.	ne oints hts will ther oor or
Elevation of the first term of	to 20 points will be assessed for any cas concrete floor or 18" above the ground, or a assessed if a properly installed and appill be determined by degree of exposure actors which may jeopardize the integrity cound, identify any conditions or factors when the cound identify any conditions or factors when the cound identify any conditions or factors when the cound identify any conditions or factors when the country is a condition of the country and conditions or factors when the country is a condition of the con	ing that does not five feet above the proved pitless add to flooding, drain of the wellhead.	extend at ne highest apter is use age, condi If insufficie rdize the w	least 12" above the flood level. No posed. Range of pointion of floor and over the ight above flowell's sanitary integral.	ne oints oits wil ther oor or grity.
Elevation 1 co bo v fa gr Well Disch 1 dis (4)	to 20 points will be assessed for any cas concrete floor or 18" above the ground, or e assessed if a properly installed and applil be determined by degree of exposure actors which may jeopardize the integrity or ound, identify any conditions or factors which may round it in a fixed by: To be fixed by: arge Piping Equipment [R309-204] Future is point assessed for each of the following it is scharge piping: (1) a smooth nosed same) a flow measuring device and/or (5) shut	ing that does not five feet above the proved pitless add to flooding, drain of the wellhead. Thich could jeopa thich could jeopa terms which are no pling tap (2) a choft valve. CIRC	extend at the highest apter is use age, cond if insufficie rdize the w of present eck valve. LE ITEMS	least 12" above the flood level. No posed. Range of point ition of floor and on the light above flowell's sanitary integrated to 20 Points: or serviceable on (3) pressure gaugnout FOUND OF	the oints oints will ther oor or o
Elevation 1 co bo v fa gr Well Disch 1 dis (4)	to 20 points will be assessed for any cas concrete floor or 18" above the ground, or e assessed if a properly installed and applil be determined by degree of exposure actors which may jeopardize the integrity or ound, identify any conditions or factors which may be fixed by: To be fixed by: arge Piping Equipment [R309-204] Future is point assessed for each of the following it scharge piping: (1) a smooth nosed same	ing that does not five feet above the proved pitless add to flooding, drain of the wellhead. Thich could jeopa thems which are not pling tap (2) a check to the training tap (2) a check training tap (4) a check training tap (4) a check training tap (4) a check training tap (5) a check training tap (5) a check training tap (6) a check training tap (6) a check training tap (7) a check training tap (8) a check training training tap (8) a check training tra	extend at the highest apter is use age, conditioned in the work of the work of the work of the work valve. LE ITEMS E ORDER	least 12" above the flood level. No posed. Range of point ition of floor and on the light above flowell's sanitary integrated to 20 Points: or serviceable on (3) pressure gaugnout FOUND OF	the oints of the oints will the oints will the oints will the oints of

Screening of Well Casing Vent [R309-515-6(12)(e) Guidance] 5 points will be assessed for a well casing vent that is not properly coveresh screen. To be fixed by: no apparent well casing vent 3. Discharge Piping Air Vent [R309-204(Future 515)-6(12)(e)(v)]	0 or 5 Points:	oer 14
5 points will be assessed tot a well casing vertalized mesh screen. To be fixed by: no apparent well casing vent Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v)]	0 or 5 Points:	
To be fixed by: no apparent well casing vent Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v)]		5
Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v))		
Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v)]		
Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v)] 1 to 5 points assessed for each well that does not have an air relief value of the terms of the second secon		_
Discharge Piping Air Vent [R309-204[Future 515]-6(12)(e)(v)] 1 to 5 points assessed for each well that does not have an air relief value to 5 points.		
1 to 5 points assessed for each well that does not have all all telepton piping directly into a distribution system. Relief valve piping must be to screened with number 14 mesh screen. Integrity of screen must be distribution.		arge properly
To be fixed by:09/01/07	0 to 5 Points:	5
no air/vacuum relief on wellhead line to residence		
No wellhouse	0 to 5 Points:	
Tatal Bo	oints Assessed:	65
TOTAL	IIIIs Assessed.	el .
ADDITIONAL REQUIRED INFORMATION (no points assessed)		
	☐ No	
s this source covered in a source protection plan?	✓ No	
s this source covered in a source protection plan? Yes is a current well log available for this well? Size of Well Case		inches
s this source covered in a source protection plan? If yes If		inches
Is this source covered in a source protection plan? Is a current well log available for this well? Current flow rate: Type of Pump: Yes Size of Well Case Summer: Yes Summer:	sing: 6	_inches
Is this source covered in a source protection plan? Is a current well log available for this well? Current flow rate:gpm	sing: 6	inches

	serviceable pressure gauge discharge?	on the	☐ Ye	s, Static	Yes, Stagr	ation*	☑ No
	1	* note: stag	gnation pressu	re includes ve	elocity head but	such gauge:	s are uncommon
If yes:	(psi)	ofL	(gpm)	Statio	: Dyna	amic	
	(psi)		(gpm)	Statio	Dyna	amic	
	(psi)		(gpm)	. Static	Dyna 🗀	imic	
Is there a p	oump-to-waste line with an a	dequate	air gap (twi	ce pipe dia	meter)?	Yes	☑ No
Distance to	Surface Water			< 100 ft	. 🔲 100 to 2	/00 ft. [☑] > 200 ft.
If there is a	Pump House, is it secure? Does it have adequate hea Does it have adequate ligh Does it have adequate ven Is floor elev.at least 6 in.ab	ting? tilation?	surrounding	ground ele	vetion?	Yes Yes Yes Yes Yes	No No No
Other Obse	rvations/Comments for This	Well:					
		_					-

DRINKING WATER FACILITY EVALUATION

2. Well

AVAICHI HOUVY	New Haver	Girls Home, Spani	sh Fork	System #:25	
System Name: Source Number:	N/A	Source Name:		Stinky Well	_
		0	Period of	Jse: Abandone	d
ocation:	see below		Longitude:	see below	
NAD 83		NAD 27	PLS		
40° 5' 52 045858" (40.09"	7791°)> 40° 5' 52-205	563" (40.0978349*)>	S 1117.84' E 1246.84' N4	528 T08S R03E	-
11° 36' 9.493744" (111.60	0264°) 111° 36′ 6.78	529" (111.60188")			
2007 GPS Readings		1			_
		2006 Surve	Y		
This well is an aban	desert well on the N	low Haven Girls Ho	ne property.		-
D, 110	9-204[Future 5187-(6)(12 ts will be assessed f	and well that doc	s not have a samilar	y seal or has unsealed tribe well. A properly	
opening	in the top of the we dand maintained pit of Drinking Water f	ell that could allow clies adapter will me	llation.	o or 50 Points:	ne

D. Elevation of Top of Well-Casing [R309-204[Future 515]-(6)(6)(b)(vi) & R309-204[Future 515]-(6)(13)(a)&(d)] 1 to 20 points will be assessed for any casing that does not extend at least 12" above the concrete floor or 18" above the ground, or five feet above the highest flood level. No points be assessed if a properly installed and approved pitless adapter is used. Range of points will will be determined by degree of exposure to flooding, drainage, condition of floor and other factors which may jeopardize the integrity of the wellhead. If insufficient height above floor or ground, identify any conditions or factors which could jeopardize the well's sanitary integrity. To be fixed by: ______ 0 to 20 Points: ____0 E. Well Discharge Piping Equipment [R309-204(Future \$15]-6(12)(e)(iv)] 1 point assessed for each of the following items which are not present or serviceable on the discharge piping: (1) a smooth nosed sampling tap (2) a check valve (3) pressure gauge (4) a flow measuring device and/or (5) shut off valve. CIRCLE ITEMS NOT FOUND OR NOT SERVICEABLE, AND IDENTIFIY IF THEY ARE NOT IN THE ORDER LISTED. To be fixed by: 0 to 5 Points: 0 F. Screening of Well Casing Vent [R309-515-6(12)/el Guidance] 5 points will be assessed for a well casing vent that is not properly covered with a number 14 mesh screen. To be fixed by: 0 or 5 Points: 0 G. Discharge Piping Air Vent [R309-204[Future 515-6(12)(e)(v)] 1 to 5 points assessed for each well that does not have an air relief valve on the discharge piping directly into a distribution system. Relief valve piping must be turned down and properly screened with number 14 mesh screen. Integrity of screen must be determined. To be fixed by: ______ 0 to 5 Points: ____

Date of Survey:

	To be fixed by	:		01	o 5 Points:	-0
			10	Total Points	Assessed:	0
ODITIONAL REQUIRE	DINFORMATION	(no points	assessed)			
this source covered in		•		Yes	No	
a current well log availa				Yes	□ No	
	gpm		Size of	Well Casing:		inches
ype of Pump:	Vertical Turbin	e Yes	;	Summersible	Yes	
rand/Model of Pump:_			Discharge	e piping size:		inches
rand/Model of Motor:			_	Horsepower:		_
				Voltage:		_
8 .				7	on* ☑!	No.
there a serviceable pre ell pump discharge?			s, Static re includes veio	Yes, Stagnation	ch gauges are u	
yes:(011	(gpm)	Static	Dynam	ic	
	os),	(gpm)	Static	Dynam Dynam	ic	
	osi:	(mag)	Static	Dynami	ic	

March 14, 2007

Date of Survey:

73	Date of Survey:	Marci	h 14, 2007
Is there a pump-to-waste line with an ade	quate air gap (twice pipe diameter)?	☐ Yes	□No
Distance to Surface Water	□ <100 ft. □ 100 to 200	ft. ::>	· 200 ft.
If there is a Pump House, is it secure? Does it have adequate heating Does it have adequate lighting Does it have adequate ventila Is floor elev.at least 6 in.above	9?	Yes Yes Yes Yes Yes	No No No No No
Other Observations/Comments for This W	/ell:		

Date of Survey:	March 14, 2007
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DRINKING WATER FACILITY EVALUATION

2. Well

New Hav	ven Girls Home, Spanis	sh <u>Fork</u>	System #:	2515 9
			ard Well	
N/A	Source Name:			- o d
		C	:Abando	
see below		Longitude:	see below	
	NAD 27	PLS		
879*)> 40".5	" 53.80390" (40.09883442°)	> S 748.97' E 527.33' N4	S28 T08S R03E	
	16.07920" (111.6044664")			_
-astr				
	2006 Surve	<u>Y</u>		
loned well on the	New Haven Girls Hon	ne property.		
in the top of the	(12)] of for any well that does well that could allow co pitless adapter will me	Yes No s not have a sanitary se ontamination to enter the et this criteria if it has b		
of Drinking Water	er for the specific instal	iation.	or 50 Points:_	
s will be assesse grade suitable fo	or human consumption		e oil used is not) or 25 Points:	0
	To b	To be fixed by:	To be fixed by:	To be fixed by:

D. Elevation of Top of Well Casing [R309-204|Future 515]-(6)(6)(b)(vi) & R309-204|Future 515]-(6)(13)(a)&(d)] 1 to 20 points will be assessed for any casing that does not extend at least 12" above the concrete floor or 18" above the ground, or five feet above the highest flood level. No points be assessed if a properly installed and approved pitless adapter is used. Range of points will will be determined by degree of exposure to flooding, drainage, condition of floor and other factors which may jeopardize the integrity of the wellhead. If insufficient height above floor or ground, identify any conditions or factors which could jeopardize the well's sanitary integrity. To be fixed by: 0 to 20 Points: 0 E. Well Discharge Piping Equipment [R309-204[Future 5151-6(12)(e)(iv)] 1 point assessed for each of the following items which are not present or serviceable on the discharge piping: (1) a smooth nosed sampling tap (2) a check valve (3) pressure gauge (4) a flow measuring device and/or (5) shut off valve. CIRCLE ITEMS NOT FOUND OR NOT SERVICEABLE, AND IDENTIFIY IF THEY ARE NOT IN THE ORDER LISTED. To be fixed by: ______ 0 to 5 Points: _____ F. Screening of Well Casing Vent [F309-519 8(12)(e) Guidance] 5 points will be assessed for a well casing vent that is not properly covered with a number 14 mesh screen. To be fixed by: 0 or 5 Points: 0 G. Discharge Piping Air Vent [R309-204] Future 515,-6(12)(e)(v)] 1 to 5 points assessed for each well that does not have an air relief valve on the discharge piping directly into a distribution system. Relief valve piping must be turned down and properly screened with number 14 mesh screen. Integrity of screen must be determined. To be fixed by: ______ 0 to 5 Points: ____0

Date of Survey:

4 4- E pointe	ain [R309-204[Future 515]- assessed for well house ceable. Where does the	drain end up	•		floor drain the	
	To be fixed by:			Si .		
-				Total Points	Assessed:	0
ADDITIONAL REQUIR	ED INFORMATION	(no points a	ssessed)			
	n a source protection plar	1?		Yes	No No	
is a current well log ava				Yes	☐ No	
	gpm		Size of	Well Casing:		inches
Current flow rate:	Vertical Turbine	Yes		Summersible	Yes	
Type of Pump:			Dischare	je piping size		inches
Brand/Model of Motor:			£6			
				Voltage	-	
Is there a serviceable p	ressure gauge on the	Yes	Static	Yes, Stagnat	tion*	No
well pump discharge?	note stag	nation pressuri	includes vel	ocity head but si	uch gauges are	uncommon
If ves:	(DSII Off	(gpm)	Static	Dynar Dynar	nic	
)7 52-2-2-2	(DSI)	(gpm)	Static	Dynal Dynal	mic	
-	(pai)	(gpm)	Static	Dynai	mic	

Date of S	Survey:	March	14, 2007
Is there a pump-to-waste line with an adequate air gap (twice pipe diameter)?	? []Yes	☑ No
Distance to Surface Water □ <100 ft. □ 10	00 to 200 ft.	[] >:	200 ft.
If there is a Pump House, is it secure? Does it have adequate heating? Does it have adequate lighting? Does it have adequate ventilation? Is floor elev.at least 6 in above the surrounding ground elevation?		Yes Yes Yes Yes Yes	No No No No No
Other Observations/Comments for This Well:			4
	B		

March 14, 2007 Date of Survey:

25159

DRINKING WATER FACILITY EVALUATION

2. Intertie

System Name:	New Haven	Girls Home, Spani	sh Fork		System #	: <u>25159</u>
Source Numbe		Source Name:	S	panish I	Fork City	
Location:			Period o	of Use:	F	uture
Latitude:	N 40° XX' XX"	_	Longitude:	W	109° XX	' XX"
Note: The water	er system asked for, and re	eceived, a three-ye	ear exception to tie	de it ove	r until Spa	anish
Fork City water	system expansion to new	service areas wou	ild run past the Ne	ew Have	om Soanie	h Fork
allow abandoni	ment of the New Haven Gi	rls Home wells in t	avor of water purc	nase in	<u> Энт Эрагиз</u>	TOTA
City.						
Spanish Fork C	City's Richard Heap estima	tes \$60,000 is the	cost of extending	service	to the Ne	w Have
Girls Hom e .						
A. Was Plan A	approval received for this in	iterconnection?	☐ Yes ☐ M	lo	Unknov	٧n

Date of Survey:	March 14, 2007	
-----------------	----------------	--

DRINKING WATER FACILITY EVALUATION

4. Disinfection Facilities Liquid Hypochlorite (Field Interview/Inspection)

System Name:	New Haven Girls Home, Sp.	anish Fo rk	System #:	<u> 25159</u>
Disinfection Station Number	per/I.D.	Station N	lame:	
		Period of	Use:	
Location:				
Source(s) Treated	(include so)	irce number(s) and name(s))	
	(2.0022.00			
		- 6		
A. Was Plan Approval rece	eived for this Chlorinator?	☐ Yes ☐ No	Unknown	
B. Detectable Residual [R309-105-10(1),	R309-200 Future 110 -5(7), R309-54	5-4(7)(4), R339-210-10,8 I	309-520-15(2)] not maintain a chlori	ne
10 points will be residual at all ti	e assessed to a chlorinated w	aler system mai docc	, Hot manner	
resignal at all the	To be fixed by:		0 or 10 Points:	0
2 points will be vented, Ventila	ps-520-10(1)(l)] assessed for each chlorine b tion must include exhausting warm climates.	uilding that is not prop room air at or near flo	of level. Treaming	,
	To be fixed by:		0 or 2 Points:	0
D. Chlorine Residual Test				
2 points will be chlorine residu.	assessed to a chlorinated wa	ater system that does	not have a functional	

To be fixed	by:	0 or 2 Points:	. 0
. Measurement of Chlorinated Water [R3 2 points will be assessed to a water treated with chlorinated water [R3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	109-520-10(1)(I)] ater system that does not I		ig the
To be fixed	by:	0 or 2 Points:	0
		Total Points Assessed:	0
DDITIONAL REQUIRED INFORMATION	(no points assessed)		
hat condition is the chlorine building in?		Good Average	Poor
a booster pump used for the chlorinator?		☐ Yes ☐ No	
ypochlorinator Brand	_	Model	
Size	_	Capacity	
Average Feed Rate	Solution	Concentration	
her Observations or Comments:			

Date of Survey: ___

March 14, 2007 Date of Survey:

DRINKING WATER FACILITY EVALUATION

5. Storage Reservoir (Field Interview/Inspection)

System Name:	New Haven Girls Horn	e, Spanish Fork	System #:
	0 Reservo	ir Name:	Hydropneumatic Tanks
	'2 @ 150 gal. ea.), East (2	@ 150 gal. ea.), and	Far East (1 @ 25 gal.) Houses
	40° XX' XX"		W 109° XX' XX"
	(gal)	Dimensions:	
Construction Year:	1111	Material:	Steel/Hydropneumatic/Bladder
		07 Su <u>rvey</u>	
Hydropneumatic tanks d	o not quality as "real" stora	ige. The working volu	ume of each Amtrol WX-350
is about 50 gallons.			
West Well -> 1-1/2" G.I.P.F	PVC -> 1-1/2" copper -> Cl;	2 -> 2 Amtrol WX-350 in	series —> Cold Water
West West		ı	
		-> I	Filter> Softener> Hot Water
	2" copper> 2 Amtrol WX-35	50 in series> Cold Wi	ater
East Well -> PVC> 1-1/2	2" copper => 2 Annio WA-00	No mili Bernes	
		-> I	Filler> Softener> Hot Water
	1-1/2" copper —> tiny Amtrol	Tank (VFD modulates W	ell pump for system pressure)
Far East Well> PVC>	1-1/2 copper —> uny Annior		
		03 Survey	
Fire Department officials	supposedly will not requir	e additional storage a	as long as the population of the
facility does not exceed	18 persons. The facility in	cludes an uncovered	storage pond for fire emergency
water.			
2			
-			

99			Date of Sun	vey: March	14, 200
٠, ١	Was Plan Approval received for this Storage Unit?	Yes	□ No	Unknown	
. ι	Uncovered Finished Water Storage [R309-545-9 & R3 A water system with an uncovered finished water s rating of NOT APPROVED.		mmediately	be assessed a	
	5	ed Reservol	r?	`∐ Yes	☐ No
	Storage Reservoir Access [R309-545-14] 10 points shall be assessed for a water storage res (shoe box) type lid, that is not locked, gasketed, an the top of the tank or finished grade.				
	To be fixed by:		-6	0 or 10 Points	0
	-				
. s	Storage Reservoir Vents [R309-545-15]				
. 8	Storage Reservoir Vents [R309-545-15] 5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh To be fixed by:	screen or fine	er in good c		
. s	5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh	screen or fine	er in good c	ondition.	0
	5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh	t has an over ely sized, 3) i	flow that is connected t	either 1) unscreasioped, and/or o the sewer. N	eened
	5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh To be fixed by: Storage Reservoir Overflow Piping [R309-545-13] Up to 15 points shall be assessed to a reservoir that with a minimum of no. 4 mesh screen, 2) inadequated without at least 12 inches of free fall or an adequated.	t has an over ely sized, 3) i	flow that is of improperly sonnected to the about the ab	either 1) unscreasioped, and/or o the sewer. N	eened umber items.
	5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh. To be fixed by: Storage Reservoir Overflow Piping [R309-545-13] Up to 15 points shall be assessed to a reservoir that with a minimum of no. 4 mesh screen, 2) inadequated without at least 12 inches of free fall or an adequated points assigned shall be determined by the number of points assigned shall be determined by the number of the state of the state of the state of the same of the state	t has an over ely sized, 3) i	flow that is of improperly sonnected to the about the ab	either 1) unscressioped, and/or o the sewer. Nove-mentioned	eened umber items.
. s	5 points shall be assessed for storage reservoirs the down vent and screened with at least No. 14 mesh. To be fixed by: Storage Reservoir Overflow Piping [R309-545-13] Up to 15 points shall be assessed to a reservoir that with a minimum of no. 4 mesh screen, 2) inadequated without at least 12 inches of free fall or an adequated points assigned shall be determined by the number of points assigned shall be determined by the number of the state of the state of the state of the same of the state	t has an over ely sized, 3) i ete air gap if er and severi	flow that is omproperly somected to the about	either 1) unscreasioped, and/or o the sewer. Nove-mentioned o to 15 Points:	eened umber items.

. Integrit	Of Roof and Sidewells of Water Storage Reservoirs [R309-545-6(1) & R309-545-9(1)] Up to 50 points shall be assessed to a reservoir that has cracks and/or other unprotected openings in the roof or sidewalls which are not water tight, or which may affect the struct integrity of the reservoir. Points shall be determined by the severity of problems and by 1 degree of possible contamination to the drinking water, rodents, birds, and/or any other means permitted by the deficiency in the roof or walls of the reservoir.	40.0
	To be fixed by: 0 to 50 Points:	0
. Access	Ladders and Protective Railings [R309-545-19] 2 points shall be assessed for each storage reservoir that does not have a safe and serviceable access ladder and/or protective railings where required.	
	To be fixed by: 0 or 2 Points:	0
Internal	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61.	544
Internal	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are	544
Internal	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61.	0
Internal	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: 0 or 30 Points:	0
. Internal	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: 0 or 30 Points:	0
	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: Total Points Assessed:	0
ADDITIOI	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: Total Points Assessed: NAL REQUIRED INFORMATION (No points assessed)	0
ADDITIOI When was	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: O or 30 Points: Total Points Assessed: NAL REQUIRED INFORMATION (No points assessed) Storage Reservoir last cleaned? (Year)	0
ADDITIOI When was	Coatings of Storage Reservoirs [R309-545-11] 30 points shall be assessed for each storage reservoir that has internal coatings that are not in compliance with ANSI/NSF Standard 61. To be fixed by: Total Points Assessed: NAL REQUIRED INFORMATION (No points assessed)	0

March 14, 2007 Date of Survey:

DRINKING WATER FACILITY EVALUATION

6. Distribution System (Field Interview/Inspection)

System Name:	New Haven Girls Home, Spanish Fork	System #:25159
ystem name.	2006 Survey	
<u>*</u>	e wells (i.e., two in "exception granted" status and one n	ot approved) has a
ach of the three activi	tem. Waters from different wells never mingle. The ope	rator has the following
distinct distribution sys	tem. Waters from different webs never mingle.	
understanding of pipe I	materials in the distribution systems:	
4/a-1 14/011 1-1/2" G.L.F	P.PVC -> 1-1/2" copper -> Cl ₂ -> 2 Amtrol WX-350 in series	> Cold Water
West Well -> 1-1/2 Cili	fi fi	
	-> Filter -	> Softener> Hot Water
		T T
East Well -> PVC -> 1-	1/2" copper —> 2 Amtrol WX-350 in series —> Cold Water	
	1-1/	
	-> Filler -	> Softener> Hot Water
Far East Well> PVC	-> 1-1/2" copper> tiny Amtrol Tarik (VFD modulates well pump	o for system pressure)
The treatment for iron a	and sulfide taste and odor is via flow-through cartridge h	nousings. The operator
exhibited the off-the-sh	nelf cartridges which appeared to be very fine in pore siz	e. There was no product
literature available but	the operator agreed to research the matter for the Divis	ion.
The water softeners in	West and East Houses are sail exchange softeners.	
The Amtrol WX-350 hy	dropneumatic (bladder) tanks have face plates that indi	cate 38-125 psi, namely,
a 38 psi factory precha	arge and a 125 psi maximum working pressure.	
The well of most recen	nt renovation, the Far East Well, has a Franklin Subdrive	VFD that modulates the
well pump motor speed	d to keep pressure in the Far East House water pipes.	A pressure senser signals
the VFD. This eliminat	tes the need for traditional hydropneumatic (bladder) tai	nks.
There annears to be as	n in-line sand-trapping cartridge in the Far East House (on the Far East Well
waterline from the well		
waterine nom the west		

<u> 2003</u>	Survey

	eflow water in an emerg	for inadequate storage capacity. An out- ency.	side pool with liner-can be u	ised for
Α.	Was Plan Approval red	ceived for this Distribution System?	☐ Yes ☐ No	Unknow
В.	50 points will be ass	1309-105-9 & R309-550-5(1)] essed to a water system which fails to pi ne water system at all times, including pe	rovide at least 20 psi at all s eak instantaneous flow cond	service ditions.
	- X	To be fixed by:	0 or 50 Poin	ts:0
C.	5 to 50 points to meet peak of	ce Capacity [R309-510-7(1)] may be assessed to a system that does it laily and/ or average yearly flow requirent by the severity and frequency of shortag	nents. The number of point	s shall
	Existing:	gpm		
	DDW Calculate:	gpm		
	Difference:	gpm		
	S .	To be fixed by:	0 or 50 Point	is: 0
ο.	5 to 50 points r capacity to med	ge Capacity [R309-510-8] hay be assessed to a system that does refer peak daily flow requirements. The nutile severity frequency of shortages and/	mber of points shall be	
		gal		
	DDW Calculate:			
	100	gal		
		To be fixed by:	0 or 50 Points	s: 50
				-

Piping Ma	aterials [R309-550-6] 30 points will be assessed to a water system that uses unapproved pipe, fittings, or	4/~
ŗ	materials for conveyance of drinking water. Piping and fittings must be the appropriate approvals. Abestos cement pipe that has	J/O
	meet AWWA Standards of other appropriate approvided as successfully passed a distribution system asbestos monitoring program according to Drinking Water Rules shall not be assessed any points.	
	To be fixed by: 0 or 30 Points:	0
1		
	e from Sewer Lines [R309-550-7] 30 points will be assessed to a water system that has improperly installed water lines which do not have adequate clearance or separation from sewer lines.	
,	William de vier i en e	
	To be fixed by: 0 or 30 Points:	
	To be fixed by: 0 or 30 Points:	
	oing on Air and Vacuum Release Valves [R309-550-6(6)(a)] Up to 2 points shall be assessed each air and/ or vacuum released valve that does not have a properly turned down screen vent, for a maximum total of 20 points possible.	
i. Flooded	oing on Air and Vacuum Release Valves [R309-550-6(6)(a)] Up to 2 points shall be assessed each air and/ or vacuum released valve that does not have a properly turned down screen vent, for a maximum total of 20 points possible.	0

March 14, 2007

Date of Survey:

DDITIONAL REQUIRED INFORMATION (no points assessed) Does the water system provide fire protection? ves				Da	ite of Survey: _	Marci	h 14, 2007
yes, how many hydrants? ves No ves	AOITIGO.	NAL REQUIRED INFORM	MATION (no poin	ts assessed)			
pes the water system have a periodic flushing program? ves No No No No No No No N	oes the v	water system provide fire	protection?			Yes	. No
pies the flushing program include hydrant maintenance? Ves No	yes, how	many hydrants?					
the sthe flushing program include hydrant maintenance? Yes No No No No No No No	oes the v	vater system have a perio	odic flushing program?	, = =	£] Yes	. No
res the water system have dead end water lines? Tes No res, how many? The pressure ranges throughout the system (psi)? What are the ranges of the different pressure zones? Pressure Zone Area psi range Automatic Manual Remote 1 1 No Controls Automatic Manual Remote	es the fl	lushing program include l	hydrant maintenance?				
res the water system have pressure zones? The pressure ranges throughout the system (psi)? What are the ranges of the different pressure zones? Pressure Zone Area psi range Automatic Manual Remote 1 50-80 x	es the w	vater system have dead e	end water lines?				
what are pressure ranges throughout the system (psi)? (low) 50 (high) 80 What are the ranges of the different pressure zones? Pressure Zone Area psi range Automatic Manual Remote 1 50-80 x	es the w	vater system have pressu	ire zones?				10
What are the ranges of the different pressure zones? Pressure Zone Area psi range Automatic Manual Remote 1 50-80 (high) 80 (high) 80	ree hour	many?			-		
Zone Area psi range Automatic Manual Remote 1 50-80 x		Pressure		1	Controls		1
1 50-80 x			psi range	Automatic		Remote	1
er Observations or Comments:							
er Observations or Comments:			<u> </u>		-		
er Observations or Comments:							
er Observations or Comments:							
	er Obsei	rvations or Comments:					

Date of Survey: March 14, 2007

PRV Station Number: N/A

PHV (Manuscrip)	Name:			
ocation: N 40° XX' XX"	Lon	gilude:	W 109º XX'	XX"
Jpstream Pressure: (psi)	Dow	nstream Pressi	лте:	(psi)
Brand/Model of PRV:				3
Main piping size:incl	nes B	ypass piping si	ze:	inches
Does the main p.r.v. have a low flow bypass with a small secondary p.r.v.?	Yes	☐ No		
s there a serviceable compound pressure gauge upstream of the main p.r.v ?	Yes	☐ No		
s there a serviceable compound pressure gauge bownstream of the main p.r.v?	Yes	☐ No		
there is a purivivault lis it adequate vidramed?	Yes	☐ No	☐ No Vault	
s there a serviceable compound pressure gauge downstream on the low flow bypass?	Yes	☐ No		
is there a serviceable compound pressure gauge upstream on the low flow bypass?	Yes	□No		

Date of Survey:	March 14, 2007

DRINKING WATER FACILITY EVALUATION

9. Conclusions

(Field Interview/Inspection)

System Name:	New Haven Girls Home, Spanish Fork System #: 25139
These items MUST B	BE COMPLETED as noted in accordance with the Utah Public Drinking Water Rules.
The New Haven Girls	s Home water system managers should vigorously pursue annexation by Spanish
Fork City. The latest	estimate on cost is \$60,000.
Because the 2007 sa	enitary survey revealed an unapproved water source (the Far East Well), the Division
has no choice but to	reclassify the water system as "not approved."
to the use	of an unapproved water source, the water system has other major problems
in addition to the use	d chlorination equipment at the West Well, unapproved irrigation systems tied into
including unapproved	J Chionnation equipment at the prevention proposition.
each of the three we	lls, and a nonexistent backflow prevention program.

DRINKING WATER FACILITY EVALUATION

10. Recommendations

(Field Interview/Inspection)

System Name:	New Haven Girls Home, Spanish Fork	System #: <u>25159</u>
These items should be system and in accordai	completed as noted to protect the integrity and/or reliab nce with anticipated E.P.A. requirements.	
The New House Girls H	dome water system managers should vigorously pursue	e annexation by Spanish
Ine New Haven Cine 1	etimeto on cost is \$60,000	
Fork City. The latest e.	stimate on cost is \$60,000.	
	Ten Sun	

Sanitary Survey - Survey Responses

4/12/2007 Survey ID: 578 Survey Date: PWS Number: UTAH25159 Steven Onysko Survey Name: NEW HAVEN-SPANISH FK CAN User Name: Question Number General / Background Info Name/Location: NEW HAVEN-SPANISH FK CAN Name of public water system: UTAH25159 PWS number: 2 2096 East 7200 South Physical address Fork, UT 84660 County:

Local Health Department

Bear River HD

Central Utah HD

Salt Lake County HD

Sanitary Survey - Survey Responses

PWS Numb Survey Nar Question N		Survey Date: 4/12/2007 User Name: Steven Onysko
General .	Background Info	
Name/Lo	cation:	DANIOLI EV CAN
10	Name of public water system:	NEW HAVEN-SPANISH FK CAN
2	PWS number:	UTAH25159
3	Physical address	2096 East 7200 South
•	T Hybrida 2007	Fork, UT 84660
74	County:	Utah
		-
Б	Local Health Department	☐ Bear River HD ☐ Southeast Utah HD ☐ Southwest Utah HD ☐ Southwest Utah HD ☐ Davis County HD ☐ Summitt County HD ☐ Salt Lake County HD
	(De showound Info	
	/ Background Info	
Classific	Total System - Design Water Production / Treatment Capacity (MGD):	0
1		7
•	Notes: Three wells - operator does not know gpm	<u>-</u> /)
• ,	Actual everage daily demand (MGD):	0
	Notes: Three wells - operator does not know prim	
		8
3	Actual peak daily demand (MGD):	0
	Notes: Three wells - operator does not know gpm	
4	SDWA classification of system	C - Community NC - Non Community transient
		NP - Non Public✓ NTNC - Non Transient Non Co
15	Number of service connections:	

5.01	Number of residential connections:	3	
	Notes: Three houses that serve 42 young women and 140 support staff.		
5.02	Number of commercial and industrial connections.	0	
5.03	Number of other connections.	0	
6	Residential population:	212	
	Notes: 42 young women and 170 support staff		
7	Seasonal operation?	Yes	
		₩ No □ NA	
7.01	Numeric calendar Month of opening:	□ Unknown	
7.02	Numeric calendar Day of opening,	1	
7.03	Numeric calendar Month of closing,	12	
7.04	Numeric calendar Day of closing.	31	
8	Purchese water?	☐ Yes	
		No NA	
	Note: The facility would eventually like to abandon its wells and buy whateshie from spanish Fork City.	Unknown	
8.1	If yes, name of system purchased from:		
8.2	System purchased from - PWS number:		
0	Sell water?	☐ Yes	
V.824		✓ No✓ NA	
		Unknown	

Question	Numbèr	
9.01	If yes, name of system sell to:	
9.02	System(s) sold to PWS number.	
Senera	al / Background Info	
Owner		F - Federal P - Private
1		L - Local S - State Government M · Mixed N · Native American
:	Legal ownership by (name or entity)	Solacium (Real Estate) Holdings
0	Principal Executive or CEO, Last Name	Kilginstrick
9	Principal Executive of CEO, First Name	Casey
	5 Owner's address	2096 E 7200 S
	6 Owner's address - City	SPANISH FORK
		V e
	7 Owner's address - State	☑ ∪T
	B Owner's address - Zip code	84660
	Owner's telephone	801-380-4377
Genei	ral / Background Info	
Staff:	12	LICKIE
	System Manager's Last name	HONE

NEW HAVEN-SPANISH FK CAN

Last survey conducted by

List of deficiencies from previous survey

2

3

Janet Keller

santary seal

appurtenances at both wellheads, West Well stickup &

General / SDWIS Site Visit Info

	18	Reason for the visit.	SNSV - Sanitary Survey SSVF - Sanitary Survey Follow- LABC - Laboratory certificat SHAZ - Sanitary Hazards Invest EMRG - Emergency assistan TRTP - Water Treatment Plant ENGR - Engineering
	4	Date of the survey	03/14/2007
	5	Survey Status	C - Completed P - Planned
	6	Last name of surveyor:	Onysko
	7	First name of surveyor.	Steve
	6	Surveyor's organization	Uten Division of Drinking Water
	9	Surveyor phone number	801-536-0096
	10	Surveyor e-mali	sonysko ©utéh.gov
D	33	Water system representatives present during the survey:	Jim Hone
	12	Official notification of report results sent to water system.	04/13/2007
leg	ulatio	ns / Plans/Records	
		the minimum requirements	2 Yes

R

Does the (TCR) sample site plan meet the (Answer no, if no plan is present)

☐ Yes ☐ No ☐ NA ☑ Unknown

Management / General

1	Does the system hauł water?		Yes No NA Unknown
1.01	Is the water system a community water system?		Yes No NA Unknown
1.02	For non-community public water systems is there any other way to supply good quality drinking water?		Yes No NA Unknown
1.03	Are the DDW guidelines for water hauling followed? (ie draw water from an approved source, periodically clean and disinfect equipment, load, disinfect water and unload water property)		Yes No Na
			Unknown
2	Have there been any customer complaints about a new taste, odor, color, or other physical change (oily, filmy, burns on contact with skin, etc) with regard to the water provided?		Yes No NA
		\Box	Unknown
	I. there a second we in place to respond immediately to such systems.		
3	Is there a procedure in place to respond immediately to such customer complaint?	ħ	Yes No
	ootipierii,	ŏ	NA.
		ō	Unknown
nageme neral:	ent / Planning		
	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel approachage for calculations)		Yes No NA
	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use		No
	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel approacheet for calculations) Notes: There are two wells that were granted construction exceptions two years ago, and a third unapproved well, that seem to yield more than enough source supply but without flowmeters that would		No NA Unknown Yes No NA
neral: 1 1 1.01	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) Notes: There are two wells that were granted construction exceptions two years ago, and a third unapproved well, that seem to yield more than enough source supply but without flowmeters that would establish the exact production rate. Does the system meet a minimum of 90% of the required source capacity?		No NA Unknown Yes No NA Unknown
neral:	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) Notes: There are two wells that were granted construction exceptions two years ago, and a third unapproved well, that seem to yield more than enough source supply but without flowmeters that would establish the exact production rate. Does the system meet a minimum of 90% of the required source capacity? Does the system meet a minimum of 80% of the required source		No NA Unknown Yes No NA Unknown Yes
neral: 1 1 1.01	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) Notes: There are two wells that were granted construction exceptions two years ago, and a third unapproved well, that seem to yield more than enough source supply but without flowmeters that would establish the exact production rate. Does the system meet a minimum of 90% of the required source capacity?		No NA Unknown Yes No NA Unknown
neral: 1 1 1.01	The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) Notes: There are two wells that were granted construction exceptions two years ago, and a third unapproved well, that seem to yield more than enough source supply but without flowmeters that would establish the exact production rate. Does the system meet a minimum of 90% of the required source capacity? Does the system meet a minimum of 80% of the required source		No NA Unknown Yes No NA Unknown Yes No NA

stion Nur	nber	
1.05	Does the system meets less than 60% of the required source capacity?	☐ Yes ☐ No ☐ NA ☐ Unknown
2	The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) Note: No conventional storage capacity. Hydropneumatic tanks at the	Yes No No Unknown
2.01	Capacity Does the system meet a minimum of 90% of the required storage capacity?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.02	Does the system meet a minimum of 80% of the required storage capacity?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.03	Does the system meet a minimum of 70% of the required storage capacity?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.04	Does the system meet a minimum of 60% of the required storage capacity?	☐ Yes ☑ No ☐ NA ☐ Unknown
2.05	Does the system meet less than 60% of the required storage capacity?	☐ Yes ☑ No ☐ NA ☐ Unknown
3	Has there been any recent modifications to the water system?	✓ Yes No
	Notes: A third well, the Far East Well, which detes back many years as an irrigation well for the former farm and orchard, was rehabilitated and put into drinking water system use without	□ NA □ Unknown
3.01	DDW review of recent modifications:	☐ Yes ☑ No
	Notes: A third well, the Far East Well, which dates back many years as an irrigation well for the former farm and orchard, was rehabilitated and put into drinking water system use without Division	Unknown
3.02	Recent modifications - Briefly describe the project.	A third well, the Far East Well, which dates back many years as an irrigation well for the former farm and orchard,
4 .	Are there any undocumented water system facilities? (i.e. tanks, pump stations; treatment facilities, etc.)	Yes No NA Unknown
	Note: The one chlorinetion process in the water system, hypochlorite solution feed at the West Well, never received plan approval.	Unknown
<u>anager</u>	nent / Emergency Response	
1 E	Does your system serve less than 3300 in population?	❤️Yes ☐ No ☐ NA ☐ Unknown
	2.01 2.02 2.03 2.04 2.05 3 3.01 3.02	The system does not meet the required storage capacity requirements? (Answer 'No' it storage capacity is adequate, use Excel spreadsheet for calculations) Note: No conventional storage capacity. Hydropneumatic tanks at the West Well and East Well do not qualify as legitimate storage capacity? 2.01 Does the system meet a minimum of 90% of the required storage capacity? 2.02 Does the system meet a minimum of 60% of the required storage capacity? 2.03 Does the system meet a minimum of 70% of the required storage capacity? 2.04 Does the system meet a minimum of 60% of the required storage capacity? 2.05 Does the system meet less than 60% of the required storage capacity? 3 Has there been any recent modifications to the water system? Notes: A third well, the Far East Well, which dates back many years as an irrigation well for the former farm and orchard, was rehabilitated and put into drinking water system use without Division approval. 3.01 DDW review of recent modifications: Notes: A third well, the Far East Well, which dates back many years as an irrigation well for the former farm and orchard, was rehabilitated and put into drinking water system use without Division. 3.02 Recent modifications - Briefly describe the project. 4 Are there any undocumented water system facilities? (i.e., tanks, pump startors, beatment facilities, etc.) Notes: The one chiornation process in the water system, hypochlorite solution feed at the West Well, never received plan approval.

estion in	inioei				. Vi
1.01	Does your system have a written Emergency Response Plan?	KIL	Yes No NA Unknowa		
1.02	Has your Emergency Response Plan been updated within the last 3 years?		Yes No NA Unknown		
2	Does your system serve a population of 3300 or greater?		Yes No NA Unknown		
2,01	Does your system have the EPA required Emergency Response Plan?		Yes No NA Unknown		
2.02	Has your Emergency Response Plan been updated within the last 3 years?		Yes No NA Unknown		
nagem	ent / Cross-Connections				-17
.1	Are there any unprotected connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system? Notes: All three drinking water wells have substandard connections to outdoor impution systems.		No NA		
2	Does the water system have all 5 of the following elements of a written cross-connection control program ?				
2.01	Legally adopted authority statement?		Yes No NA		
2.02	Documentation of annual public awareness and/or employee training?		Yes No NA		
2.03	Documentation of personnel trained to manage the program?		Yes No		
	hospital industry.		Unknown		
2.04	Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.?		No NA		
2.05	Documentation of on-going program enforcement? (ie records of periodic		Yes		
	1.01 1.02 2 2.01 2.02	1.01 Does your system have a written-Emergency Response Plan? 1.02 Has your Emergency Response Plan been updeted within the last 3 years? 2 Does your system serve a population of 3300 or greater? 2.01 Does your system have the EPA required Emergency Response Plan? 2.02 Has your Emergency Response Plan been updated within the last 3 years? 1 Are there any unprotected connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsele water or other contaminating materials may be discharged or drawn into the system? 1 Notes: [All three drinking water wells have substandard connections to outdoor irrigetion systems. 2 Does the water system have all 5 of the following elements of a written cross-connection control program? 2.01 Legally adopted authority statement? 2.02 Documentation of annual public awareness and/or employee training? 2.03 Documentation of personnel trained to manage the program? Note: Operator Jim Hone gained backflow awareness experience in the hospital industry. 2.04 Records of hazards found, protection required and installed,	1.02 Has your Emergency Response Plan been updeted within the last 3 years? 2 Does your system serve a population of 3300 or greater? 2.01 Does your system have the EPA required Emergency Response Plan? 2.02 Has your Emergency Response Plan been updated within the last 3 years? 1 Are there any unprotected connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsete water or other contaminating materials may be discharged or drawn into the system? 1 Note: All three drinking water wells have substandard connections to joutdoor impartion systems. 2 Does the water system have all 5 of the following elements of a written cross-connection control program? 2.01 Legally adopted authority statement? 2.02 Documentation of annual public awareness and/or employee training? 2.03 Documentation of personnel trained to manage the program? 2.04 Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.?	1.01 Does your system have a written Emergency Response Plan? Yes	1.01 Does your system have a written Emergency Response Plan? Yes

Management / Staffing

	1	is the main operator properly certified at the level required for the system?	☐ Yes ✓ No
Potentia	l Deficiency	Notes: Nontransient noncommunity water system operators into the certified. The present water system operator, Jim Hone, is not	NA Unknown
	2	certified. Is a certified operator available within 1 hour travel time at all times as required by R309-300 (Operator Certification Rule)?	Yes No NA Unknown
Mar	ageme	nt / Source Protection	
		to the water curtors on records filled with	V- Har
	1	Who is the designated person for the water system on records filed with the DDW?	Jim Hone
	2	Is their phone number and address different from the water system?	Yes No No
•			□ NA
			□ Unknown
	2.01	Updated address	
	2.02	Updated phone number.	Y
			3 3
	3	is there a current copy of each of the DWSP Plans on the premises of the water system? (If this is a transient non-community, they should have a copy of their assessment on the premises.)	☐ Yes ☑ No ☐ NA
		Notes: In fact, the unapproved third well, the Far East Well, has no Division-recorded DWSP Plan. The two older wells, west Well and East Well, have DWSP Plans on file at DDW but not at the facility itself.	□ Uпклоwп
•	4	Are the following Items in the Source Protection Plans kept up to date in order to show current conditions in the DWSP zones, including:	
	4,01	is the inventory of potential contamination sources current?	Yes No NA
			✓ Unknown
	4.02	Implementation of land management strategies in the recordkeeping section? The recordkeeping section must include copies of ordinances, codes, permits, public education programs, minutes of meetings, etc.	Yes No No NA
			₩ Unknown
	5	Are there any new sources for which a Preliminary Evaluation Report has not been submitted?	✓ Yes □ No
		Notes: Fast East Well.	LJ NA

6	Are there any old sources that have come into use for which a DWSP	✓ Yes
	Plan has not been submitted?	No No
	Note: The third well, the Far-East Well. A 10/24/04 construction and DWSP Plan exception was granted.	☐ NA ☐ Unknows
7	Has there been reconstruction or redevelopment of any ground-water source for which a revised DWSP Plan has not been submitted?	Yes No
	Notes: The third well, the Far East Well. A 10/24/04 construction and DWSP Plan exception was granted.] [] NA [] Unknown
Sources / C	General Control of the Control of th	
General:		
1	Are there any undocumented source(s) physically connected to the drinking water system?	Yes
tential Deficienc	Notes: The third well, the Far East Well,	□ NA
EAST WE	Groundwater LL - (Active) / Construction: The well coring does NOT extend a minimum of 18 locker where the	. D v
1)	The well casing does NOT extend a minimum of 18 inches above the finished ground surface or 12 inches above the well house floor? (Answer "No" if standard is met)	Yes No NA
	Notes: A 10/24/04 construction and DWSP Plan exception was granted.	Unknown
1,01	Is the well site in a flood plain or area likely to be flooded?	Yes No
		NA Unknown
2	is the senitary seal properly installed and maintained?	Yes Yo
tential Deficiency	Notes: No evidence of a sanitary seal.] 🔲 NA
		Unknown
3	is there a pitiess adapter?	Yes No NA Unknown
3.01	Does the pitless adapter appear to be water tight including the cap, cover, casing extension and other attachments?	Yes No
		NA Unknown
4	is the well casing vented?	Yes No
		Unknown
4.01	is the open end of the vent screened with a #14 mesh screen?	Yes No
		Unknown
4.02	Is the open end of the vent down-turned?	Yes No
		☐ NA
		Unknown

Is the open end of the vent terminated with an appropriate air gap above the ground?

Yes
No
NA
Unknown

4.03

Question N	um ber	
5	is there a pump to waste line from the well?	☐ Yes ☑ No ☐ NA ☐ Unknown
5.01	Does the pump to waste line discharge through an approved air gap?	☐ Yes ☐ No ☐ NA
	a 444 popusarrodible mesh	☐ Unknown ☐ Yes
5,02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	□ No □ NA □ Unknown
5,03	Does the pump to waste line discharge to a sanitary sewer or storm sewer without proper local authorization?	☐ Yes ☐ No ☐ NA ☐ Unknown
6	Is there a means to measure drawdown?	☐ Yes ☑ No ☐ NA ☐ Uŋknown
• ,	Is the wellhead properly secured against unauthorized personnel?	☐ Yes ☑ No ☐ NA ☐ Unknows
C	/ Groundwater	
Sources	ELL - (Active) / Pumps:	
EAST W	Where does this pumping station pump from and to?	East well's submersible pump pumps to east House.
	711010 0000	
2	What type of pump(s) are at this pumping station?	☐ CF - Centrifugal ☐ SC - Screw ☐ HP - Hand Pump ☑ SU - Summersible ☐ JT - Jet ☐ VT - Vertical Turbine ☐ PD - Positive Displacement
3	Is the building and equipment protected from flooding?	☐ Yes ☐ No ☑ NA
	Notes There is no building.	Unknown
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	0
	Notes: Unknown. There is no flowmeter at the wellhead.	_
. 5	Are cross-connections present in the well discharge piping?	Yes No
Potential Defic	Notes: Substandard connection to nearby outdoor irrigation.	Unknown
6	Is adequate drainage provided?	☐ Yes ☑ No
Potential Defic	Notes Ground around casing is level but ponding could occur.	¬ □ na
7	Are toxic chemicals, hazardous or flammable materials or lubricants	☐ Yes ☑ No
	stored inside the pumping station?	NA Unknown

	8	is the pump discharge line equipped with and in order of placemen	t:			 	
	8,01	Pump discharge piping: a smooth-nosed sampling tap?		Yes No NA Unknown			
	8.02	Pump discharge piping: a positive-acting check valve between the pump and the Isoletion valve?					
Potentia	l Deficienc	and the isolation variety	<u>-</u>	No NA			
				Unknown			
	8.03	Pump discharge piping: pressure gauge?		Yes			
Potentia	l Deficiency	y		No NA Unknown			
	8.04	Pump discharge piping: flow meter?		Yes			
Potentia)) Deficiency			No NA			
			_	Unknown			
	6.05	Pump discharge piping: isolation gate valves?	~	Yes No			
Potential	Deficiency			NA	1		
			_	Unknown			
	9	Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the		Yes No			
Potential	Deficiency	pump discharge piping?		NA			
				Unknown			
	9.01	is the discharge line from the air release valve properly downturned?		Yes			
			H	No NA			
				Unknown			
9	9.02	Is the open end of the air release valve screened with #14 mesh		Yes			
		corrosion resistant mesh screen?	님	No NA			
				Unknown			
9	9 03	Is the open end of the air release valve terminated an appropriate air gap		Yes			
		(minimum of 6 inches) above the ground or pumphouse floor?		No NA			
				Unknown			
	10	Are the correct types of lubricant used (ANSI/NSF 60)?		Yes			
				No NA			
				Unknown			
	11	Is rotating and electrical equipment provided with protective guards?		Yes			
			_	No			
				NA Unknown			
C		moundwater					
_		roundwater L. (Active) / Constructions					
WES		.L - (Active) / Construction:	~	V			
	1	The well casing does NOT extend a minimum of 18 inches above the finished ground surface or 12 inches above the well house floor?	$\overline{}$	Yes No			
	(Answer "No" if standard is met)		NA			
				Unknown			

Question Nu				-	
1.01	Is the well site in a flood plain or area likely to be flooded?	, E	Yes No NA Unknown		
2	Is the senitary seal properly installed and maintained?	_ ✓]Yes ∫No		
Potential Deficien	cy		NA Unknown		
3	Is there a pitiess adapter?		│ Yes │ No │ NA │ Unknown		
3,01	Does the pitless adapter appear to be water tight including the cap, cover, casing extension and other attachments?		Yes No NA Unknown		
4	Is the well casing vented?		Yes No NA Upknown		
4.01	is the open end of the vent screened with a #14 mesh screen?		Yes No NA Unknown		
4.02	is the open end of the vent down-turned?		Yes No NA Unknown		
4.03	Is the open end of the vent terminated with an appropriate air gap abouthe ground?	ve [[[Yes No NA Unknown		
5	Is there a pump to waste line from the well?	[] [Yes ✓ No NA Unknown		
5,01	Does the pump to waste line discharge through an approved air gap?] [[Yes No NA Unknown		
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh screen?	[] [Yes No NA Ubkdowd		
5.03	Does the pump to waste line discharge to a senitary sewer or storm sewer without proper local authorization?		Yes No NA Unknown		
6	is there a means to measure drawdown?		Yes No		
81			∐ NA □ Unknown		

Question No	Is the wellhead properly secured against unauthorized personnel?			
:6:	is the wellhead properly secured against unauthorized personner?	Yes No		
		□ NA		
		Unknown		
Sources /	Groundwater			
WEST WI	ELL - (Active) / Pumps:			
1	Where does this pumping station pump from and to?	West Well's subm	ersible pum	p pumos to West House.
		-		
2	What type of pump(s) are at this pumping station?	CF - Centrifugal		SC - Screw
		HP - Hand Pum	•	SU - Summersible
		U JT - Jet □ PD - Positive Di	splacement	☐ VT - Vertical Turbine
3	Is the building and equipment protected from flooding?	Yes	opinoonion	
Ŧ:		No No		
		⊠ NA		
		∐ Unknown		
4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	0	-	
	Notes: Unknown. There is no flowmeter at the wellhead.			
	×			
5	Are cross-connections present in the well discharge piping?	¥ Yes □ No		
Potential Deficience	Notes: All three wells have substandard connections to irrigation systems	□ NA		
	Notes: All three wells have substantially conflections to impation systems	Unknown		
6	Is adequate drainage provided?	☐ Yes		
otential Deficienc	· v	V No		
	Note: Ground is level near wellhead but ponding is possible.	□ NA □ Unknown		
	Are toxic chemicals, hazardous or flammable materials or lubricants	_		
7	stored inside the pumping station?	⊥ Yes ⊒ No		
	Notes: There is no pumping station.	NA NA		
	THE STATE OF THE S	Unknown		
8	is the pump discharge line equipped with and in order of placement:			
8.01	Pump discharge piping: a smooth-nosed sampling tap?	□ Yes		
6.01	Pump discharge prints. a amount hosed sampling up;	Z No		
		□ NA		
		Unknown		
8.02	Pump discharge piping: a positive-acting check valve between the pump	Yes		
otential Deficiency	and the isolation velve?	☑ No		
		」NA □ Unknown		
		_		
8.03	Pump discharge piping: pressure gauge?	_ Yes ☑ No		
otential Deficiency		NA NA		
1		Unknown		

Yes No NA

8.04
Potential Deficiency

Pump discharge piping: flow meter?

Question Num	ber		-		
8.05	Pump discharge piping: isolation gate valves?	V	Yes No		
Potential Deficiency			NA Unknown		
9 Potential Deficiency	Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?		Yes No NA		
	punip assesses, i		Unknown		
9.01	Is the discharge line from the air release valve properly downturned?		Yes No NA Unknown		
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?		Yes No NA Unknows		
9.03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?		Yes No NA Unknown		
10	Are the correct types of lubricant used (ANSI/NSF 60)?		Yes No NA Upknown		
11	Is rotating and electrical equipment provided with protective guards?		Yes No NA Unknown		
Sources / C FAR EAST	Groundwater WELL - (Active) / Construction: The well casing does NOT extend a minimum of 18 inches above the finished ground surface or 12 inches above the well house floor?	ie S	Ži Yes No		
1.01	(Answer "No" if standard is met) Is the well site in a flood plain or area likely to be flooded?		□ NA □ Uπknown □ Yes □ No		
		[_ NA □ Unknown □ Yes		
2 Potential Deficience	Is the sanitary seal properly installed and maintained?		No NA Unknown		
3	is there a pitless adapter?	[☐ Yes ✓ No ☐ NA ☐ Unknown		
3.D1	Does the pitless adapter appear to be water tight including the cap, cover, cesing extension and other attachments?		☐ Yes ☐ No ☐ NA ☐ Unknown		
4	Is the well casing vented?		☐ Yes ☑ No ☐ NA ☐ Unknown		

debuton 1	lumber		
4.01	Is the open end of the vent screened with a #14 mesh screen?	720	Yes
3100	•		No
		Ē	NA NA
		Ť	Unknown
		<u></u>	Chkhowa
4.02	is the open end of the vent down-turned?		Yes
			No
			NA .
		\vdash	Unknown
		_	Oukhows
4.03	is the open end of the vent terminated with an appropriate air gap above		Yes
	the ground?		No
		\Box	NA
		Ē	Unknown
			CUADOWB
5	is there a pump to waste line from the well?		Yes
41		-	
		\Box	NA
		一	Unknown
			OUKDOWN
5.01	Does the pump to waste line discharge through an approved air gap?		Yes
			No
		Ħ	NA
		Ţ	
			Unknown
5.02	is the pump to waste line equipped with a #4 non-corrodible mesh		Yes
233	screen?	一一	No
		Ħ	
		\vdash	NA
		ш	Unknown
5.03	Does the pump to waste line discharge to a sanitary sewer or storm		Yes
0.00	sewer without proper local authorization?	Ħ	No
		H	
		Ή	NA
			Unknown
6	Is there a means to measure drawdown?		Yes
*		$\overline{\mathbf{z}}$	No
		_	NA .
			Unknown
7	Is the wellhead property secured against unauthorized personnel?		Yes
	a sile individue property and a sile of the sile of th		No
			NA
			Unknown
ces / C	<u>Groundwater</u>		
12 A C1	「WELL - (Active) / Pumps:		
LASI	•		
1	Where does this pumping station pump from and to?	The	e Fer East well's submersible pump pumps to the
		1718	e i ai cast weirs abbinerable purilp purilps to the
		Eas	st House.
		_	
			CF - Centrifugal SC - Screw
2	What type of pump(s) are at this pumping station?		
2	What type of pump(s) are at this pumping station?		HP • Hand Pump
2	What type of pump(s) are at this pumping station?		
2	What type of pump(s) are at this pumping station?		JT - Jet
3	What type of pump(s) are at this pumping station? Is the building and equipment protected from flooding?		JT - Jet
			JT - Jet
	Is the building and equipment protected from flooding?		JT - Jet
			JT - Jet
	Is the building and equipment protected from flooding?		JT - Jet
	Is the building and equipment protected from flooding? Notes: There is no building.		JT - Jet
	Is the building and equipment protected from flooding? Notes: There is no building. What is the actual pumping capacity of this well in gallons per minute		JT - Jet
	Is the building and equipment protected from flooding? Notes: There is no building.		JT - Jet

Question Numb		\$6000 [4]		more to your t	-: 15
- 5	Are cross-connections present in the well discharge piping?		Yes No		
Potential Deficiency	Notes: All three wells have substandard connections to irrigation systems.	H	NA Unknown		
6 Potential Deficiency	Is adequate drainage provided?		Yes No NA		
	1		Unknown		
7	Are toxic chemicals, hazerdous or flammable materials or lubricants stored inside the pumping station?		Yes No NA Uaknown		
-8	is the pump discharge line equipped with and in order of placement:				
B.01	Pump discharge piping: a smooth-nosed sampling tap?		Yes No NA Upknown		
8 02 Potential Deficiency	Pump discharge piping: a positive-acting check valve between the pump and the isolation valve?	✓	Yes No NA		
Potential Delicies,			Unknown		
8.03	Pump discharge piping: pressure gauge?		7		
Potential Deficiency			NA Unknown		
8.04 Potential Deficiency	Pump discharge piping: flow meter?		Yes No NA Unknown		
8.05	Pump discharge piping: isolation gate valves?		Yes No		
Potential Deficiency			NA Unknown		
9 Potential Deficiency	Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?	Y	Yes No NA		
9.01	ts the discharge line from the air release valve properly downturned?		Unknown Yes No NA Unknown		
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?		Yes No NA Unknown		
9 03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?		Yes No NA		
1			Unknown		

Question N	umber	4
10	Are the correct types of lubricant used (ANSI/NSF-60)?	Yes No W NA Unknown
11	Is rotating and electrical equipment provided with protective guards?	☐ Yes ☐ No ☑ NA ☐ Unknown
EAST WI	ELL - (Active) / General	
General:		
1	is a schematic of the treatment facility readily available and up to date?	☐ Yes ☐ No ☑ NA
		Unknown
2	Is a finished water sampling tap provided?	☐ Yes ☐ No ☑ NA ☐ Unknown
3	Is the facility performing adequate process control testing consistent with the specific treatment process?	☐ Yes ☐ No ☑ NA ☐ Unkdowz
40	Is there any recycling being performed from waste stream?	☐ Yes ☐ No ☑ NA ☐ Unknown
4,01	If yes, where does the recycle water enter the treatment plant?	
5	For all surface water plants that serve a population greater than 3300, do they have equipment to measure chlorine residuals continuously entering the distribution system?	☐ Yes ☐ No ☑ NA
6	Are pre- and post-chlorination systems, for all facilities treating surface water, independent to prevent possible siphoning of raw or partially treated water into the clear well?	☐ Yes☐ No ☑ NA
		Usknown
EAST WE	LL - (Active) / General	
Lab/Monit	oring:	
1	Are laboratory facilities or appropriate test kits available at the plant to enable staff to perform appropriate process control testing?	☐ Yes ☐ No ☑ NA ☐ Unknown
2	Do all chemical reagents have an unexpired shelf lite?	☐ Yes ☐ No ☑ NA ☐ Unknown
100		ED GREGOTE

Que	stion Num	ber	
-		L - (Active) / General	
	mical U		_
Circ	1	Are dry chemicals used?	☐ Yes ☑ No ☐ NA ☐ Unknows
	1.01	Does the dry chemical feeder measure the quantity of chemical fed volumetrically or gravimetrically?	olumetrically gravimetrically
	1.02	Are provisions made for the proper transfer of dry chemicals from shipping containers to storage bins or hoppers, in such a way as to minimize the quantity of dust which may enter the room in which the equipment is installed?	Yes No NA
22	1.03	Are provisions made for disposing of empty bags, drums or barrels by a procedure which will minimize exposure to dusts?	Unknown Yes No NA Unknown
•	2	Are liquid chemicals used?	☐ Yes ☑ No ☐ NA ☐ Unknown
	2.01	Is cross-connection control provided on the service water lines that leed the solution tanks?	☐ Yes ☐ No ☑ NA ☐ Unknown
	2.02	Do overflow pipes, when provided, have free fall discharge?	Yes No No NA Unknowa
	2,03	Are subsurface locations for solution tanks free from sources of possible contamination?	☐ Yes ☐ No ☑ NA ☐ Unknown
•	2,04	Do subsurface locations for solution tanks have positive drainage for groundwater, accumulated water, chemical spills and overflows?	☐ Yes ☐ No ☑ NA ☐ Unknown
	2.05	If a motor-driven transfer pump is provided, is a liquid level limit switch and an over-flow from the day tank operable?	☐ Yes ☐ No ☑ NA ☐ Unknown
	2.06	Are there adequate splll containment provisions?	Yes No NA Unknown
	2.07	Are ecid storage and day tanks provided with separate screened vents?	☐ Yes ☐ No ☑ NA
			Unknown

2.08	Is a means provided to measure the solution level in the day tank or storage tank?		Yes No	-
			☑ NA □ Unknown	
3	Are chemical feeders and pumps operated at no lower than 20 percent of the feed range?	# <u> </u>	Yes	
	010 1000 10.1ge (∐ No	
		_ ≝	=	
		1	Unknown	
4	Is an anti-siphon device provided so that liquid chemical solutions canno		☐ Yes	
	be siphoned after the solution feeders into the water supply?		No No	
		Z		
		_	Unknown	
5	Are tanks and tank refilling line entry points properly labeled to designate		☐ Yes	
-	the correct chemical ?		O No	
		~		
		-	_ Unknown	
6	Are chemicals stored in covered or unopened shipping containers?		ີ Ye	
	(unless the chemical is transferred into an approved storage unit)	_ ;=		
	(Billess the orienteer to wanterfree title art approved storage title)		□ No	
		≥	¬	
		ــا	Unknown	×
7	Is cross-connection control provided so that no direct connections exist) Yes	٩
	between any sewer and a drain or overflow from the feeder, solution	H		
	chamber or tank?		No	
	Clightipe) or tank:	Y	² NA	
			Unknown	
11723			¬ —	
a	Is all chemical feed equipment operable and in good condition?	$ \square$	Ų Yes	
		<u> </u>	No	
		\checkmark	¹ NA	
			Unknown	
11297			7	
8	Are spare parts available for all chemical feeders?	=	Yes	
		$ \sqcup$	No	
		\checkmark	NA NA	
			Unknown	
10	Are the chemical feeders flow paced?	닕	Yes	
		닏	No	
		\checkmark	NA NA	
			Unknown	
	1 N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		1	
11	is there proper anti-siphon protection on each feed pump?	片	Yes	
			No	
		\mathbf{Z}	NA NA	
			Unknown	
	a to the about the formula of		3	
12	Are feed lines protected against freezing?		Yes	
		\vdash	No .	
		\mathbf{Z}	NA NA	
			Unknown	
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	
13	Are feed lines made of durable, corrosion-resistant material?		Yes	
			No	
		$\overline{\mathbf{Z}}$	NA	
			Unknown	
			1	
14	Are all chemicals conducted from the feeder to the point of application in	_	Yes	
	separate conduits?		No	
		\mathbf{Z}	NA	
			Unknown	

Question N	Number	TOO TO THE STREET STORES TO THE STREET OF THE STREET STREE
15	Are incompatible chemicals stored separately?	☐ Yes☐ No ☑ NA ☐ Unknown
16	Do daily operating records reflect chemical dosages and total quantities used?	Yes No No Unknown
17	Are all chemical feeders properly calibrated to ensure accurate feed rates?	☐ Yes ☐ No ☑ NA ☐ Unknown
18	Are provisions made for measuring the quantities of chemicals used?	☐ Yes ☐ No ☑ NA ☐ Unknown
19	Are acids and caustics kept in closed corrosion-resistant shipping containers or storage units?	Yes No No Unknown
20	Are vents from feeders, storage facilities and equipment exhaust discharged to the outside atmosphere above grade and remote from air intakes?	☐ Yes ☐ No ☑ NA
21	Are all chemicals and water contact materials approved by an ANSI/NSF accredited organization? Note: Label missing from sodium hypothlorite solution container.	☐ Yes ☐ No ☐ Wassown
Waste D	VELL - (Active) / General Disposal: Are process and plant wastes discharged to anything? If yes explain.	☐ Yes ☐ No ☑ NA ☐ Unknown
	VELL - (Active) / Filtration	
General	Are the filters operated to minimize flow variations?	☐ Yes ☐ No ☑ NA ☐ Unknown
2	and in	☐ Yes
	Are instrumentation and controls for the process operational, and in service?	☐ No ☑ NA ☐ Unknown
4	Are instrumentation and controls for the process operational, and in service? Is a sample tap provided prior to application of permanganate?	□ No ☑ NA

		94-086 3 00-0.8879	Marininkarion, no T	-
6	Is settled backwash water recycled?	' 🗀	Yes	
			No	
		-	NA	
			Unknown	
10	Are media depths periodically checked against design standards?		Yes	
	rate mode departs personally encounted against econgit otomodites:	Ħ	No	
		Ž		
			NA NA	
		ب	Unknown	
13	Are filter run times consistent throughout the year?		Yes	
			No	
		y	NA	
			Unknown	
		_		
15	is there an SOP for the beckwash procedure?	닏	Yes	
			No	
		$\overline{\mathbf{Z}}$	NA	
			Unknown	
45				
17	Are the filters equipped with a surface wash or air scour system to enhance the efficiency of the backwash process?		Yes	
	enhance the enviercy of the backwash process:		No	
		_	NA	
		لــا	Unknown	
16	Is filter-to-waste practiced at the end of a backwash?	[]	Yes	
		_	No	
			NA	
			Unknown	
			Cikilows	
ST WE	ELL - (Active) / Filtration			
	 -			
artridge:		_		
1	Is pretreatment used to prevent rapid fouling?		Yes	
			No	
			NA	
		W		
			Unknown	
			Unknown	
2	What filter element is used in the cartridge?		ceramic	
2	What filter element is used in the cartridge?		ceramic polypropylene	
2	What filter element is used in the cartridge?		ceramic	
2	What filter element is used in the cartridge?		ceramic polypropylene	
250	What filter element is used in the cartridge? What is the filter pore size?		ceramic polypropylene other	
2			ceramic polypropylene	
250			ceramic polypropylene other	
250			ceramic polypropylene other	
3	What is the fifter pore size?		ceramic polypropylene other	
250			ceramic polypropylene other	
3	What is the fifter pore size? How frequently are the fifters cleaned per year?		ceramic polypropylene other	
3	What is the fifter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and		ceramic polypropylene other	
3	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused.		ceramic polypropylene other	
3	What is the fifter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and		ceramic polypropylene other	
3	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused.		ceramic polypropylene other	
3	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused.		ceramic polypropylene other	
3	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused.		ceramic polypropylene other	
3	What is the fifter pore size? How frequently are the fifters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused. What is the typical time between filter replacements?	Uni	ceramic polypropylene other snown	
3 4 5	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused. What is the typical time between filter replacements? Is disinfection being used to prevent fouling and reduce microbial pass-through?		ceramic polypropylene other nown ee months.	
3	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused. What is the typical time between filter replacements? Is disinfection being used to prevent fouling and reduce microbial pass-through?		ceramic polypropylene other snown	
3 4 5	What is the filter pore size? How frequently are the filters cleaned per year? Notes: Cartridges are disposable. Cartridges cannot be cleaned and reused. What is the typical time between filter replacements? Is disinfection being used to prevent fouling and reduce microbial pass-through?		ceramic polypropylene other nown ee months.	

eneral:	CLL - (Active) / General	
enerar: 1	Is a schematic of the treatment facility readily available and up to date?	Yes No
		□ NA
		₩ Unknown
2	Is a finished water sampling tep provided?	☐ Yes ☐ No
		☑ NA
		Unknown
3	Is the facility performing adequate process control testing consistent with	Yes
100	the specific treatment process?	□ No ☑ NA
		Unknown
120	Is there any recycling being performed from waste stream?	Yes
2	is there buy tecycling out a personal	₩ No
		NA Unknows
	the treatment plant?	
4.01	If yes, where does the recycle water enter the treatment plant?	
		Π
Б	For all surface water plants that serve a population greater than 3300, do	☐ Yes ☐ No
100	they have equipment to measure chlorine residuals continuously entering the distribution system?	₩ NA
		Unknown
		Yes
6	Are pre- and post-chlorination systems, for all facilities treating surface water, independent to prevent possible siphoning of raw or partially	□ No
	treated water into the clear well?	☑ NA
		Unknown
EST W	ELL - (Active) / General	
ab/Monit		
4	Are laboratory facilities or appropriate test kits available at the plant to	☐ Yes
.10	enable staff to perform appropriate process control testing?	□ No □ NA
		✓ Unknown
	Do all chemical reagents have an unexpired shelf life?	₩ Yes
2	Do all chemical reagents have an onexpired after me.	□ No
		□ NA
		Unknown
EST W	ELL - (Active) / General	
hemical		
1	Are dry chemicals used?	☐ Yes ☑ No
		NA NA
		Unknown
	Does the dry chemical feeder measure the quantity of chemical fed	volumetrically
1.01		

Question N			-
1.02	Are provisions made for the proper transfer of dry chemicals from shipping containers to storage bins or hoppers, in such a way as to minimize the quantity of dust which may enter the room in which the equipment is installed?	Yes No NA	
		☐ Unknown	
1.03	Are provisions made for disposing of empty bags, drums or barrels by a procedure which will minimize exposure to dusts?	Yes No	
		☐ NA ☐ Unknown	
2	Are figuid chemicals used?	⊘ Yes	
		No NA	
		Unknown	
2.01	Is cross-connection control provided on the service water lines that feed the solution tanks?	☐ Yes ☐ No	
		✓ NA	
		Unknown	
2.02	Do overflow pipes, when provided, have tree fall discharge?	☐ Yes ☐ No	
		₩ NA	- 4
		Unknown	À
2.03	Are subsurface locations for solution tanks free from sources of possible	Yes	
	contamination?	∐ No ☑ NA	
		Unknown	
2.04	Do subsurface locations for solution tanks have positive drainage for groundwater, accumulated water, chemical splits and overflows?	Yes No	
		✓ NA Upknowp	
2.05	If a motor-driven transfer pump is provided, is a liquid level limit switch	□ Yes	
2.00	and an over-flow from the day tank operable?	□ No	
		✓ NA Unknown	
	to the analysis only postsisment provisions?		
2.06	Are there adequate spill containment provisions?	Yes No	
	Notes: Floor drein could easily contain a leak or spill from the 5-gellon	₩ NA	4
	addium hypochiorite sarboy.	Unknown	Į
2.07	Are acid storage and day tanks provided with separate screened vents?	☐ Yes ☐ No	
		₩ NA	
		Unknown	
2.08	Is a means provided to measure the solution level in the day tank or storage tank?	Yes No	
	Notes: Operator can see the level of sodium hypochlorite remaining in the 5-pallon carboy.	✓ NA □ Unknown	
3	Are chemical feeders and pumps operated at no lower than 20 percent of the feed range?	Yes No	
	Notes: Old disphragm feed pump should be replaced.	☐ NA☐ Unknown	
57254	le an anti sinhan davina aya dafad an that llavid shaminst salutions		
Act.	is an enti-siphon device provided so that liquid chemical solutions cannot be siphoned after the solution feeders into the water supply?	☐ Yes	
		⊻ NA	
		Unknown	

Ques	shon Nun	4-2 mod 20 mod 2	ACRES OF	The second of th
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5	Are tanks and tank refilling line entry points properly labeled to designate the correct chemical?		No NA
		Notes: The one feed line is transparently obvious and requires no labeling.		Unknown
	6	Are chemicals stored in covered or unopened shipping containers? (unless the chemical is transferred into an approved storage unit)		No No
		Notes: A single, 5-gallon carboy of concentrated sodium hypochicrite solution supplies the suction side of the disphragm feed pump.		NA Unknown
	7	Is cross-connection control provided so that no direct connections exist between any sewer and a drain or overflow from the feeder, solution chamber or tank?		No Na
			\sqcup	Unknown
	8	Is all chemical feed equipment operable and in good condition?		Yes No
		nemeral is a second purpose to commended) NA
		Notes: New hypochlorite solution diaphragm feed pump is recommended.	4	Unknown
		Are spare parts available for all chemical feeders?		Yes
		Ale spare pand a same a	-	No
				NA
		1	V	
9		Are the chemical feeders flow paced?	V	Yes
	10	Are the chemical records non-passes.		No
		Notes: Hypochlorite solution feed pump turns on when the constant rate well pump turns on. The trick is to properly match feed rate to well flow.		NA Unknown
		is there proper anti-siphon protection on each feed pump?		Yα
	11	is there proper and sprior protection of		No No
			₹	NA NA
			L	_ Unknown
		and the second second function?] Yes □
	12	Are feed lines protected against freezing?		No
			V	2 NA
				Unknown
		4.4 Management of the starting	V	Z Yes
	13	Are feed lines made of durable, corrosion-resistant material?		No
				□ NA
•				Unknown
v		at a standard in		Yes
	14	Are all chemicals conducted from the feeder to the point of application in	F	No.
		separate conduits?	1 💆	
		Notes: There is only one chemical, sodium hypochlorite.] [Unknown
		Are incompatible chemicals stored separately?		☐ Yes
	15	Are incompatible crienticals stored separately.		□ No
			√	NA NA
			L	Unknown
		and suffers chamical deserges and total quantities		∃ Yes
	16	Do daily operating records reflect chemical dosages and total quantities used?		No No
				⊇ NA
		Notes: The operator observes but does not record drawdown of each sodium hypochlorite, 5-gallon carboy. A new carboy is moved in place when the old one is depleted.	1	Daknown
	17	Are all chemical feeders properly calibrated to ensure occurate feed		Yes
	17	rates?		No.
		11 PARTICIPAL		_ NA
			₩	Unknown

Question	(1)(1)(0)			
18	Are provisions made for measuring the quantities of chemicals used?		Yes No	
	Note: The operator observes but does not record drawdown of each audium hypochlorite, 5-gaflon carboy. A new carboy is moved in place when the old one is depleted.		NA Unknown	
19	Are acids and caustics kept in closed corrosion-resistant shipping containers or storage units?		Yes No NA Unknown	
20	Are vents from feeders, storage facilities and equipment exhaust discharged to the outside atmosphere above grade and remote from air intakes?		Yes No NA	
21	Are all chemicals and water contact materials approved by an ANSI/NSF accredited organization?	\checkmark	Unknown Yes No	
	Notes: NSF-certified sodium hypochorite soltion is used.		NA Unknown	
WEST W	ELL - (Active) / General			
Waste Dis	posal:			
1	Are process and plant wastes discharged to anything? If yes explain.	Y	Yes No NA Unknown	
			Olikuowb	
WEST W	ELL - (Active) / Chlorination			
General:				
1	During the past year, has the disintection process operated uninterrupted while water was being produced? It no, describe in comments.		Yes No NA	
2	Is the contact time between the point of disinfection and the first customer in compliance with regulatory requirements?		Unknown Yes No	
	Notes: Chlorinated drinking water passes through two hydropneumatic tanks in series before reaching the house faucets. The detention time through the two hydropneumatic tanks is unknown.	ı 🗆 :	NA Unknown	
3	Are spare parts available to replace parts subject to weer and breakage?		Yes No NA	1
	is there a means to measure the volume of water treated?		Jnknown Yes	
	Notes None of the three wells has a flowmeter.	<u>П</u>	No NA Juknowa	
5	What disinfectant residual is maintained at the entry point of the distribution system?	Unk	nown	
	Notes: Operator needs to buy a chlorine residual test kit for the West Well disinfection process.	-		-
6	Is at least a trace of residual maintained at all points in the distribution system?	□ 1	'ස බං	
11			VA Juknowu	
7	Are chlorine residuals tested at least three times a week in the distribution system?		es Go	
			VA Jakdown	

Ques	tion Num	DET	ملادران	こうごうかい くりゅうしょう うべき	・新からからからからかっている。	the contract the second	سرسه پېزلواندېدستانس	gyptydy mywrynaiddiadaid
A PROPERTY OF	8	Are there an adequate number of disinfection residual sample sites and do they provide a representative sample of system conditions?	$\overline{\mathbf{Z}}$	YES No NA				
		Noes: Operator has no sampling site map.	Ĭ	Unknown				
	9	Is chlorine residual testing equipment capable of measuring residuals to the nearest 0.1 milligrams per liter?		Yes No NA Unknown				
	10	Is the correct reagent used for testing free residual?		Yes No NA Unknown				
WES	T WF	LL - (Active) / Chlorination						
Hyn	ochlorii	nation:						
,,,p	1	Are hypochlorite feeders of the positive displacement type?		Yes No NA				
		Notes: The hypochorite feed pump is a diaphragm pump. This is not a deficiency!		Unknown				
0	2	Is cross-connection control provided on the service water lines that feed the solution tanks?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes No NA Unknown				
	3	Is each tank provided with a valved drain, protected against backflow?		Yes No NA Unknown				
	•	Are overflow pipes, when provided, located where they can be readily monitored?		Yes No NA Unknown				
	5	Are storage and day tanks provided with separate vents that terminate to the outside atmosphere?		Yes No				
•	ĕ	Is there a procedure in place to ensure consistent strength of the chemical in the day tank?		Yes No NA Unknown				
	7	Are storage tanks and pipelines for liquid chemicals specified for use with individual chemicals and not used for different chemicals?		Yes No NA Unknown				
	ā	Is the storage tank covered to minimize corrosive vapors?		Yes No NA Unknown				
33272	cor sam	ELL - (Active) / Filtration						
		ALL - (ALUIL/17 MILES						
Cai	rtridge:	Is pretreatment used to prevent rapid fouling?		No				
		Notes: West Well water is chlorinated before it passes through the tilter cartridges.] [□ NA □ Unknown				

Question N	umber	
2	What filter element is used in the cartridge?	ceramic polypropylene
3	What is the filter pore size?	Unknown.
	0	*****
13.5	60	
4	How frequently are the filters cleaned per year?	
		, -
	Notes: Dirty certridges cannot be cleaned and reused. Dirty cartridges are thrown away.	
5	What is the typical time between filter replacements?	Three months.
6	Is disinfection being used to prevent fouling and reduce microbial pass-	☑ Yes
**	through?	□ No
		□ NA
		Unknown
DISTRIB	UTION SYSTEM - (Active) / Design	
		10
1	Do all water mains (installed after 1995) that provide fire flow have a	Yes
Potential Deficier	diameter of at least 8 inches?	⊻ i No
		L. NA
1.76		☐ Unknown
2	Was asbestos/cement pipe used in the system?	Yes
		⊻ No □ NA
		Unknown
2.1	Has an asbestos analysis been done?	☐ Yes
0.000	The all appeared and you do not apply.	□ No
		□ NA
		Unknown
DISTRIB	UTION SYSTEM - (Active) / Pressure/Flow	
1	Is the PWS capable of providing sufficient water during maximum hourly	☑ Yes
	demand conditions to maintain a minimum pressure of 20 psi within the	□ No
	system measured at all points of connections during normal system operation?	L NA
		Unknown
2	Was the system constructed after March 1, 2006.	∐ Yes
		☑ No □ NA
		Unknown
2.01	Does the system maintain at all points of connection the following	☐ Yes
2101	pressures:	□ No
	 (a) 20 psi during conditions of fire flow and fire demand experienced during peak day demand; (b) 30 psi during peak instantaneous demand; 	□ NA
10.	and (c) 40 psi during peak day demand.	
		7 1
		Uaknown

DISTRIBUTION SYSTEM - (Active) / Air & Vacuum Release Valves

	1	Are air and vacuum release valves used in the system?	Yes No NA Unkbowo
	1,01	is the vent line properly screened (#14 mesh) and down turned?	Yes No NA Unknown
	1.02	Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?	Yes No NA Unkbown
	1.03	Does the valve chamber have a drain or adequate sump?	Yes No NA Unknown
•	1.04	Does the valve chamber show evidence of flooding?	Yes No NA Unknown
	1,05	Is the chamber flooded at the time of the inspection?	Yes No No NA Unknowe
DIS	TRIBU	JTION SYSTEM - (Active) / Cross-Connection	ons
	1	Does any portion of the distribution system cross under any surface water body?	Yes No NA Unknown
0	1.01	Were all the following precautions taken? A min. of 2 ft of cover over the pipe; and if the crossing is greater than 15 ft: special construction with restrained joints; valves at each side for pipeline isolation; and permanent taps to allow leakage testing.	Yes No NA
			Unknown
Potenti	3 a) Deficienc	Does the water system have a program to control the use of fire hydrants?	Yes No NA Unknown
	4	Are blow ofts connected to sanitary or storm sewers or do they exit below flood level in disches or streams?	Yes No No NA Unknown
<u>DIS</u>	TRIBU	UTION SYSTEM - (Active) / Disinfection	
Potent	 1 a Deficient	Does your water facility disinfection procedures meet the AWWA C-601, 602, 651, 652 Standards for disinfection?	Yes No NA Unknown

POD New Haven Spanish Fork System #25159

Name	WR/CH/EX # Type Status App # Cert #
LANC L.L.C., Underground Water Well Priority Date: 05/22/1961	51-2872 APPL CERT A23132 a725 0.015 cfs
LANC L.L.C., Underground Water Well Priority Date: 06/17/1977	51-4729 APPL CERT A49654 10313 0.015 cfs
LAMC L.L.C., Underground Water Well Priority Date: 05/27/1961	51-2967 APPL CERT A33199e 9116 0.030 cfs
LAMC LLC, Underground Water Well Priority Date: 12/03/1979	51-4917 APPL CERT A54022 0.015 cfs 1.5 acft
LAMC, LLC, Underground Water Well Priority Date: 02/12/1997	54-683 APPL CERT A66596 0.015 cfs 1.4 acft
LAMC, LLC, Underground Water Well Priority Date: 02/03/2000	54-711 APPL CERT A67157 1.6 acft

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APPLICATION/CLAIM NO.: A34096
                                         CERT. NO.: 7312
WATER RIGHT: 51-8186
NAME: David C. Helm
ADDR: 5300 South 900 East
    Salt Lake City, Utah 84117
                DATES, ETC.
LAND OWNED BY APPLICANT?
FILED: 02/21/1962 PRIORITY: 02/21/1962 PUB BEGAN:
| NEWSPAPER: | PROTESTED: [No
                                        SE ACTION:
                           | | HEARNG HLD:
[Approved] | ActionDate: | PROOF DUE:
                                           |CERT/WUC: 06/20/1966|LAP, ETC:
         |ELEC/FROOF: | ] |ELEC/PROOF:
EXTENSION:
PROV LETTER:
                           TYPE: [
              RECON REQ:
         Map:
RENOVATE:
Type of Right: Application to Appropriate Source of Info: Ownership Segregation
PD Book No.
Status: Certificate
                 ........................
LOCATION OF WATER RIGHT ** (Foints of Diversion: Click on Location to access PLAT Program.)*******
             ------
                                  SOURCE: Underground Water Well
FLOW: 1.5 acre-feet
              COMMON DESCRIPTION:
COUNTY: Utah
POINT OF DIVERSION -- UNDERGROUND: (Click Well ID# link for more well date.)
(1) S 756 ft E 527 ft from N4 cor, Sec 28, T 85, R 3E, SLEM
This is apparently the Orchard Well.
NADE3
    40° 05' 55.57414" 40.098770!
111° 36' 18.79216" 111.60522º
                                     Spanish Fork Peak
                       40-09877059*
Lat
Long
NAD27
    40° 05' 55.734"
111° 36' 16.083"
                                     Spanish Fork Peak
                       40.098825
Lat
                      111.604479
Long
DIAMETER OF WELL: 12 ins. DEPTH: 471 to ft. YEAR DRILLED: WELL LOG? NO WELL IDS: Comment:
USES OF WATER RIGHT
             SUPPLEMENTAL GROUP NO. 227839. Water Rights Appurtenant to the following use(s):
51-69,1603,8181,8182,8183, 8184,8185,8186
Diversion Limit: 0.0 acft.
                    of the Group Total: 39.4 acres
###IRRIGATION: 0.375 acres
PERIOD OF USE: 04/01 TO 10/31
###FLACE OF USE: *-----NORTE WEST QUARTER------NORTE EAST QUARTER-----
NW | NE | SW | SE * NW | NE | SW | SE * NW | SE * TOTALS
                15.0000
                               __|__
                                     _|__*-----
          _|15.0000|__
 Sec 28 T 88 R 3E SLEW
                                _|-----
                     _*24.4000[_
                   24.4000
SEGREGATION HISTORY
   This Right was Segregated from 51-1603 , with Apple: A34096, Approval Date: / /
which Proof is to be submitted. This Right as originally filed:
       QUANTITY IN *------WATER USES-----
FLOW IN
        ACRE-FEET IRRIGATED STOCK DOMESTIC MUNICIPAL MINING POWER OTHER
 CFS
                 ACREAGE (ELDs) (FAM - PER)
         0.3750
```

```
WATER RIGHT: 51-2873
                    APPLICATION/CLAIM NO.: A23132 CERT. NO.: a725
 CHANGES: 85797 Certificate 9725
 ...........
 NAME: LANC L.L.C.
 ADDR: P.O. Box 50238
     Provo, Utah 84605-0238
 LAND OWNED BY APPLICANT?
 FILED:
      05/22/1961 PRIORITY: 05/22/1961 PUB BEGAN:
                                                   PUB ENDED:
 NEWSPAPER:
                PROTESTED: (No
                                ] | HEARNG HLD: | SE ACTION:
 [Approved] ActionDate: PROOF DUE:
 EXTENSION:
             ELEC/FROOF: [ ] ELEC/PROOF:
                                                 CERT/WOC: 08/30/1972 LAP, ETC:
 PROV LETTER:
RENOVATE
                RECON REQ:
                                TYPE: [
PD Book No.
             Mapi
Type of Right: Application to Appropriate Source of Info: Certificate Status: Certificate
LOCATION OF WATER RIGHT *** (Points of Diversion: Click on Location to access PLAT Program.) *******
P1-0W: 0.015 cfa
                                       SOURCE: Underground Water Well
COUNTY: Utah
                COMMON DESCRIPTION:
POINT OF DIVERSION -- UNDERGROUND: (Click Well ID# link for more well data.)
(1) S 1124 ft W 1495 ft from NE cor, Sec 28, T 88, R 3E, SLBM
This is apparently the Stinky Well.
NAD83
        40* 05' 52.00721" 40.09777978*
Lat
                                           Spanish Fork Peak
     111: 36: 10.63654" 111.6029546
Long
NAD27
    40° 05' 52.167"
111° 36' 7.928=
                          40.097825
                                          Spanish Fork Peak
Lat
                         111.602204
Long
DIAMETER OF WELL: 6 ins. DEPTH: 267 to ft. YEAR DRILLED: 1970 WELL LOG? Yes WELL ID#: 427045
USES OF WATER RIGHT
SUPPLEMENTAL GROUP NO. 229315.
###STOCKWATER: 2 Stock Units
                                                    Diversion Limits
PERIOD OF USE: 01/01 TO 12/31
 ###POMESTIC: 1 Family
                                                      Diversion Limit:
PERIOD OF USE: 01/01 TO 12/31
           ###PLACE OF USE: *-----NORTH WEST QUARTER-----*--NORTE EAST QUARTER-----*
SOUTH WEST QUARTER-----* Section
                  * NW | NE | SW | SE * NW | NE | SW | SE * NW
0.0000
NORTH-WESTY NORTH-EASTY SOUTH-WESTY
NW NE SW SE NW NE SW SE NW NE SW SE
                                                                 NW NE SW SE
Sec 28 T 65 R 3E SLBM
                       * 1 1 1 *
This Right was Segregated from 51-1536 , with Apple: A23132, Approval Date: / /
which Proof is to be submitted.
This Right as originally filed.
                    *----* A T E R U S E S-----
PLOW IN QUANTITY IN IRRIGATED STOCK DOMESTIC MUNICIPAL MINING POWER OTHER
 CFS
          ACRE-FEET ACREAGE (ELDs) (FAM-PER)
                     0.1300
0.015
```

```
CERT. NO.: CERTIFICATED
                   APPLICATION/CLAIM NO. | A54022
WATER RIGHT: 51-4917
NAME: LAMC LLC
ADDR: PO Box 50238
    Provo UT 84605-1218
LAND OWNED BY APPLICANT?
FILED: 12/03/1979 PRIORITY: 12/03/1979 PUB BEGAN:
                                                      PUB ENDED
NEWSPAPER
                                                      SE ACTION:
                                   | HEARNG HLD:
                 PROTESTED: [No
ProtestEnd:
[Approved] ActionDate:04/03/1980 PROOF DUE: 11/30/1997
                 | ELEC/PROOF: [Proof | | ELEC/PROOF: 10/27/1997 | CERT/WUC: 07/17/1998 | LAP, ETC:
EXTENSION:
PROV LETTER:
                 RECON REQL
                                   TYPE: [
RENOVATE:
Type of Right: Application to Appropriate Source of Info: Certificate Status: Certificate
              Mapi
LOCATION OF WATER RIGHT***(Points of Diversion: Click on Location to access PLAT Program.)*******
                                          SOURCE: Underground Water Well
FLOW: 0.015 cfe OR 1.506 acre-feet
                 COMMON DESCRIPTION: 3 Mi SE from Spanish Fork
COUNTY: Utab
POINT OF DIVERSION -- UNDERGROUND: (Click Well ID# link for more well data.)
(1) S 210 ft W 1647 ft from NE cor, Sec 28, T 85, R 3E, SLBM
This is apparently the East Well.
NAD83
       40s 06' 1.03322" 40.100287015
1115 36' 12.67365" 111.60352055
                                               Spanish Fork Peak
                             40.100287019
Lat
Long
NAD27
                                               Spanish Fork Peak
        40: 06' 1.193"
                             40.100334
       40: 06' 1.193" 40.10033:
111: 36' 9.965" 111.60277#
Lat
Long
DIAMETER OF WELL: 6 ins. DEPTE: 285 to ft. YEAR DRILLED: 1982 WELL LOG? Yes WELL ID#: 30137
       Commant
USES OF WATER RIGHT
SUPPLEMENTAL GROUP NO. 230821.
                  ......
 ###IRRIGATION:
                                                          Diversion Limit: 1.0 acft.
               0.25 acres
PERIOD OF USE: 04/01 TO 10/31
###STOCKWATER: 2 Stock Units Diversion Limit: 0.056
acft. PERIOD OF USE: 01/01 TO 12/31
                     Diversion Limit:
                                                                          0.45
  ###DOMESTIC: 1 Family
      PERIOD OF USE: 01/01 TO 12/31
   *-----NORTH WEST QUARTER------NORTH EAST QUARTER-----
  ###PLACE OF USE:
SOUTH WEST QUARTER----* Section
Sec 28 T 85 R 3E SLAM 4____
0.2500
PLACE OF USE for
STOCKWATERING****
                         NORTH-WEST% NORTH-EAST% SOUTH-WEST% SOUTH-EAST% NW NE SW SE NW NE SW SE NW NE SW SE
Sec 28 T 8S R 3E SLAM
                        * 1 1 1 *
APPLICATIONS FOR EXTENSIONS OF TIME WITHIN WHICH TO SUBMIT PROOF ***
                                                      NEWSPAPER: Spanish Fork Press
         05/11/1994 PUB BEGAN: 08/04/1994 PUB ENDED:
FILED:
 ProtestEnd: 09/17/1994 PROTESTED: [No ] HEARING HLD:
                                                     SE ACTION:
 [Approved] | ActionDate: 01/19/1995 | PROOF DUE: 11/30/1997
```

```
WATER RIGHT: 51-2967 APPLICATION/CLAIM NO.: A331996
                                      CERT. NO.: 9116
 CRANGES: a6634 Certificate 9116
 NAME: LANC L.L.C.
 ADDR: P.O. Box 50238
    Provo, Utah 84605-0238
    .....
 LAND OWNED BY APPLICANT?
 FILED: 08/31/1970 PRIORITY: 05/27/1961 FUE BEGAN:
                                         PUB ENDED:
           PROTESTED: (No
 ProtestEnd:
                          ] HEARING HLD:
                                        SE ACTION:
 [Approved] ActionDate:
                    PROOF DUE:
 EXTENSION: | ELEC/PROOF: | | | ELEC/PROOF:
                                     CERT/WOC: 08/30/1972 LAP, ETC:
 PROV LETTER:
 RENOVATE
             RECON REQ: TYPE: [
           Mapi
 PD Book No.
 Type of Right: Application to Appropriate Source of Info: Certificate
 Status: Certificate
                   LOCATION OF WATER RIGHT *** (Points of Diversion: Click on Location to access PLAT Program.) *******
 FLOW: 0.03 cfs
                               SOURCE: Underground Water Well
 COUNTY: Utah
              COMMON DESCRIPTION:
 POINT OF DIVERSION -- UNDERGROUND: (Click Well IDS link for more well data.)
 (1) 8 191 ft W 1499 ft from NE cor, Sec 28, T 88, R 3E, SLBM
This is apparently the Far East Well.
EBGAN
     40° 06° 1.23024° 40.10034173
111° 36° 10.7695° 111.6029915°
Lat
                      40.10034173 Spanish Fork Peak
Long
NAD27
    40° 06' 1.390" 40.100392
111° 36' 8.061" 111.602243
Lat
                     40.100394
                                  Spanish Fork Peak
Long
DIAMETER OF WELL: 6 ins. DEPTE: 270 to ft. YEAR DRILLED: 1970 WELL LOG? Yes WELL IDS:
427060
      Comment
           SUPPLEMENTAL GROUP NO. 229408.
###IRRIGATION: 0.5 acres
                                          Diversion Limit: 0.0 acft.
PERIOD OF USE: 04/01 TO 10/31
###STOCKWATER: 2 Stock Units
                                          Diversion Limit:
PERIOD OF USE: 01/01 TO 12/31
###DOMESTIC: 2 Families
               Diversion Limits
PERIOD OF USE: 01/01 TO 12/31
 ###PLACE OF USE: *-----NORTE WEST QUARTER-----*-NORTE EAST QUARTER-----
SOUTH WEST QUARTER-----* Section
               * NW | NE | SW | SE * NW | NE | SW | SE * NW
* NW | NE | SW | SE * Totals
NE SW SE NW
 Fec 28 T 85 R 3E SLEM *____
0.5000]__
0.5000
```

WATER RIGHT: 51-2967 CERT. NO.: 9116 CHANGE: &6634 BASE WATER RIGHTS: 51-2967 CHANGES: Point of Diversion [], Place of Use [], Nature of Use [], Reservoir Storage []. ADV ENDED ADV BEGAN: PRIORITY FILED SE ACTION: [| | EEARNG HLD: NEWSPAPER PROTESTED: [No ProtestEnd LAP, ETC: PROOF DUE] | ActionDate: CERT/WUC: | ELEC/PROOF ELEC/PROOF: EXTENSION PROV LETTER: TYPE: [RECON REQ RENOVATE: Status: Certificate TARREST TO FOR EXPRISE TO TO RESPECTABLE TO FOR EXPRESSION TO THE RESPECTABLE FOR EACH FLOW: FLOW SOURCE COUNTY: BAD-COUNTY CON DESC: SOURCE COUNTY: BAD-COUNTY POINT(S) OF DIVERSION ----> NATURE OF USE ----------SUPPLEMENTAL to Other Water Rights; No SUPPLEMENTAL to Other Water Rights: No

OF DATA***

************** N D

```
APPLICATION/CLAIM NO.: A49654
 WATER RIGHT: 51-4729
                                                 CERT. NO.: 10313
   ------
 NAME: LAMC L.L.C.
 ADDR: P.O. Box 50238
    Provo, Dtab 84605-0238
 LAND OWNED BY APPLICANT?
 FILED: 06/17/1977 PRIORITY: 06/17/1977 PUB BEGAN: 09/15/1977 PUB ENDED:
 NEWSPAPER:
                 PROTESTED: [No
 ProtestEnd:
                                 ] | HEARING HLD: SE ACTION:
 [Approved] | ActionDate: 01/18/1978 | PROOF DUE:
 EXTENSION:
             ELEC/PROOF:[
                                ] | ELEC / PROOF:
                                                   CERT/WDC: 06/09/1978|LAP. ETC:
 PROV LETTER
RENOVATE:
                RECON REG.
                                  TYPE: {
PD Book No. Map:
Type of Right: Application to Appropriate Source of Info: Certificate
                                                             Status: Certificate
                                          ******************************
LOCATION OF WATER RIGHT *** (Points of Diversion: Click on Location to access PLAT Program.) *******
          ..........
FLOW: 0.015 cfs
                                        SOURCE: Underground Water Well
                COMMON DESCRIPTION.
COUNTY: Utah
POINT OF DIVERSION -- UNDERGROUND: (Click Well ID# link for more well data.)
(1) 8 76 ft E 737 ft from N4 cor, Sec 28, T 8S, R 3E, SLBM
DIAMETER OF WELL: 8 ins. DEPTE: 280 to ft. YEAR DRILLED: WELL LOG? NO WELL ID#: Comment;
This is apparently the West Well:
FRCIAM
Lat 40° 06° 2.31118° 40.10064199°
Long 111° 36° 16.14792° 111.6044855°
                           40.100641996
                                           Spanish Fork Peak
NAD27
       404 06'
                2-471"
Lat
                           40.100699
                                           Spanish Fork Peak
       1114 36' 13.439" 111.603734
Long
USES OF WATER RIGHT
SUPPLEMENTAL GROUP NO. 230676. Water Rights Appurtenant to the following use(s): 51-1,4729
###IRRIGATION: Group Total: 0.99 acres Diversion Limit: 0.0 acft. PERIOD OF USE: 04/01 TO 10/31
***Sole Supply for Irrigation for 51-4729 in this Group has NOT YET been evaluated ***
                                 ...........
###DOMESTIC: Group Total: 1 Family Diversion Limit:
                                                     PERIOD OF USE: 01/01 TO 12/31
**Sole Supply for Families and/or Persons for 51-4729 in this Group has NOT YET been evaluated**
 ###PLACE OF USE: *-----NORTH WEST QUARTER------
SOUTE WEST QUARTER-----* Section
      * NW | NE | SW | SE * NW | NE | SW | SE * NW | SW | SE * NW | NE | SW | SE * Totals
Sec 28 T 88 R 3E SLBM *____
                         _-!----
                                      _-{__
                                _!___
0.9900|_
0.9900
OTHER COMMENTS
  See Memorandum Decision dated 01/18/1978
```

Attachment B

Public Water System Master Report 10/26/2007

Utah Department of Environmental Quality Division of Drinking Water

Public Water System Master Report

Run Date: 10/26/2007

PWS ID: UTAH25159

Name: NEW HAVEN-SPANISH FK CAN

Legal Contact NEW HAVEN-SPANISH FK CAN

Rating: Not Approved

JIM HONE

Rating Date: 5/11/07

Address: 2096 E 7200 S

SPANISH FORK, UT 84660

Phone Number: 801-794-1218

City Served (Area):

UTAH COUNTY County:

Gal/Min Gal/Day

System Type: Non Transient

Last Inv Update: Last Snty Srv Dt:

6/22/07 3/14/2007

Avg Daily Prod: Total Dsgn Cap:

٥ 0 0

0

Activity Status Cd: Active

Population:

46

Oper Period:

1/1 to 12/31

Phone Numbers

Total Emerg Cap:

0

Contacts

Contact

Type Name HONE, JIM Title

Office 801-380-4375 **Emergency**

Email Address

Service Connections

Connection Type

Residential

Meter Type Code

Unknown

Meter Size

Number

Connections

0 0 Total Svc Connections

Treatment Plants

Plant Name

TP001 EAST WELL TP002 WEST WELL Approved Design Capacity (gel/day)

Activity Date 6/1/77

4/16/07

Distribution System

Pump Type

Total Dyn Head # H2O P.S.J.

0

Pressure

Adequate

Sources No. Source Name	Status	Ѕоигсе Туре	Well Dia.	Appd Dsgn Cap/Meas Flow⁺	Location Data On File	Water Type	Avallability	
140.	Active	WL	0	0 GPM	No	GW	Other	
WS001 EAST WELL	Active	WL	0	o GPM	No	GW	Other	
WS002 WEST WELL WS003 FAR WEST WELL	Active	WL	-		No	GW	Other	

^{*}Reports measured flow for wells, approved design capacity for all other sources.

Sampling and Monitoring Requirements

Total Coliform Rule Monitoring

Sample	Sample	Sample	Effective	Effective	Seasonal	Seasonal	Analyle	Analyte	
Count	Type	Frequency	Begin Date	End Date	Slart	End	Code	Name	
1	Routine	Quarterly	4/1/2006		1/1	12/31	3100	COLIFORM, TOTAL (TCR)	-

Non-TCR Individual Analyte Requirements

Facility ID	Facility Name	Analyt Code		mple ount	Sample Type	Sample Frequency	Last Sample	Next Sample Between
DS001	DISTRIBUTION SYSTEM					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Detween
			Lead & Copper	5	Routine	6M	6/30/2004	7/1/2004 - 12/30/2004
			- 5					
VS001 8	EAST WELL							
		1040	NITRATE (AS N)	1 8	Routine	Year	5/9/2007	Calc from last sample & free
			Pesticides	1 1	Routine	3 years	8/10/2004	1/1/2007 - 12/31/2009
			Volatile Organics	1	Routine	Year	5/30/2007	1/1/2008 - 12/31/2008
			Sulfate	1 1	Routine	3 years	12/7/2004	1/1/2007 - 12/31/2009
			Inorg & Metals	1	Rouline	3 years	12/7/2004	1/1/2007 - 12/31/2009
/5002 V	VEST WELL							
OUGE .	TEST WELL							
		1040	NITRATE (AS N)	1 F	loutine	Year	5/9/2007	Calc from last sample & free
			Pesticides	1 F	Rouline	3 years	4/13/2004	1/1/2007 - 12/31/2009
			Volatile Organics	1 F	Routine	Year	5/30/2007	1/1/2008 - 12/31/2008
			Sulfate	1 F	Routine	3 years	1/29/2004	1/1/2007 - 12/31/2009
			Inorg & Metals	1 F	Routine	3 years	1/29/2004	1/1/2007 - 12/31/2009
S003 F	AR WEST WELL							
		1040	NITRATE (AS N)	1 B	outine	Year	5/9/2007	Calc from last sample & freq
			Sulfate	1 B	Pouline	3 years		Begin Sampling Immediately
			Radionuclides	1 R	Routine	Quarter		Begin Sampling Immediatel
			Pesticides	1 R	loutine	Quarter		Begin Sampling Immediately
			Volatile Organics	1 R	loutine	Year	5/30/2007	1/1/2008 - 12/31/2008
			Inorg & Metals	1 R	loutine	3 years		Begin Sampling Immediately

Improvement Priority System

Total IPS Points:

628

Rating Date: 5/11/2007

Rating: Not Approved

Violation Pts*:

40

Admin & Physical Facilities:

558

Operator Certification Pts:

30

^{*} Total violation points may not agree with the detail section. The detail sections show all 'open' violations; the violation points total adjusts for duplicate violations

	is, the violation points total asjects			- 41 1		CH- 1/	inite	
Phys	ical Facility, Administrative,	& Source	Protection	Deficie	ncies tro	om Site Vi	SILS	
Code	Description			A Designation of the last of t	ert Megzink	STITUTE COLUMN	MIDITIARRY S. S. S.	MACHINE STATE
C001	OPERATOR NOT CERT TO LEVEL HEO	UIRED FOR \$	YSTEM					ESECTION OF THE PROPERTY OF TH
		Date	PWS Notified	100			Max Pt	0.1
t di	Facility	Determined	The second of the second	HILLS HAVE	ESSERVICE	Secretary Section 2	San Calling	The state of the s
		3/14/2007		13				
D012	REC - FIRE HYDRANT USE FOLICY INA	DEQUATE			想基本			
		Date	PWS Notified				Max Pl	s 0
0.38	Facility	Determined	THE SHAPE	H1000000000000000000000000000000000000	DESTRUCTION	No. of Street	MACON.	STHROUGH WAYN
	DS001 DISTRIBUTION SYSTEM	3/14/2007						
D017	* INADEQUATE SAMPLE SITES FOR RE	SIDUAL TESTI	NO					Recipion (
**		Date	PWS Notified				Max P	5 0
٠,۶´´ ' ، يوني ،	Facility	Determined	BATTE OF THE PARTY.	HILL SE	SCI TIME BUTH	SECTION STATE	The same of the	ST. Campanion
, (TP002 WEST WELL	3/14/2007			- 1			
D018	IMPROPER BATCH DISINFECTION PRI	ACTICES	W. 1886				Share at	
		Date	PWS Notified				9000	
	Facility	Determined			福利權	SHEET IN	Max P	HE SHEDWAY
	DS001 DISTRIBUTION SYSTEM	3/14/2007						
D019	INADEQUATE DISTRIBUTION CAPACIT	TY FOR FIRE	LOW		757 15			VIEW THE
4000	张明整张祖子	Date	PWS Notified					
	Facility	Determined		33150	CONTRACT OF		Max P	
CONTRACT	DS001 DISTRIBUTION SYSTEM	3/14/2007						
G001	WATER SYSTEM FACILITY LACKS PL	AN APPROVAL		EE 388	一個目			
-		Date	PWS Notified					
200	Facility	Determined	100000000000000000000000000000000000000				Max P	ts DQ
Filtrages	AWI BAR SHIP	3/14/2007						
1/1000	O CLO FINANCIAL MOMT PLAN IN PLAC	E 32 3	E STORE LEGIS					
74110		Date	PWS Notified					- 20mm-30mm
533	Facility	Determined		1		70 H 31"	Max P	19 9
THE STATE OF	The state of the s	7/17/2003	7/17/2003					
	SYSTEM HAS WITTEN FINANCIA	AL MANAGEM	ENT PLAN					

Code Description	a Gourt	ce Protection Deficiencies from Site Visits
MO03 CCC-LACKS LOCAL AUTHO	ORITY	
	Date	PWS Notified
Facility	Determined	Max Pts 10
	3/14/2007	
MODE OCC-LACKS WRITTEN REC	OFIDS TOPING	
	Date	PWS Notified
Facility	Determined	Max Pts 10
	3/14/2007	
M007 CCC-LACKS CN-SOING EN	FORCEMENT FLAN	
	Date	PWS Notified
Facility	Determined	Max Pts 10
	3/14/2007	
M020 UNFROTECTED CROSS CC	INN PRESENT IN DIST BY	YSTEM AND THE RESERVE OF THE RESERVE
	Date	PWS Notified
Facility	Determined)	Max Pts 50
	3/14/2007	
POR NO ACCESS TO LAB OR TE	ST KITS FOR PROCESS	TESTING
The second second	Date	PWS Notified
Facility TP001 EAST WELL	Determined	Max Pts 2
THOUT EAST WELL	3/14/2007	
ROOS EXPIRED CHEM REAGENT I	JSED FOR PROCESS CO	NTROL TEST
	Date/	PWS Notified
Facility	Determined	Max Pts 6
TP001 EAST WELL	3/14/2007	
SOUT SOURCE LACKS FLAN APPE	ROVAL	STATEMENT OF THE STATE OF THE S
一直然后,然后		PWS Notified
Facility	Determined	Max Pts 150
WS001 EAST WELL THE SYSTEM HAS NO	11/17/2003 T SUBMITTED ENGINEER	11/17/2003 RING PLANS FOR REVIEW AND APPROVALTHE
SYSTEM HAS NOT SUI	BMITTED A PRELIMINARY	Y EVALUATION REPORT NOR HAVE THEY OR EITHER THE EAST OR WEST WELLS
8002 WELL HOUSE NOT SECURE	A CONTRACTOR OF THE CONTRACTOR	THE PAST OF WELLS
Facility	Date Determined	PWS Notified Max Pts 20
WS001 EAST WELL	3/14/2007	AND WORKER DESCRIPTION OF THE SERVED MANAGEMENT OF THE SERVED MANAGEMEN
WS003 FAR WEST WELL	3/14/2007	
WS002 WEST WELL	2/44/0007	
HOUSE HELD WELL	3/14/2007	

Thursday Encility Administrat	ive. & Source	Protection Deficiencies from Site Visits
	,	110-00
Code Description BODD ELEVATION OF WELL CASING INV	ADEQUATE	
BOOD FLEVATION OF WELL GROWN	Dete	PWS Notified Max Pts 20
Facility	Determined	
WS003 FAR WEST WELL	3/14/2007	
WS003 FAR WEST TIEL		
The state of the s	Ph-200 - 100 T100	
S012 WELL LACKS PROPER SANITARY		PWS Notified
	Date Determined	Max Pts 50 8
Fecility	3/14/2007	
WS003 FAR WEST WELL	•,	
	04440077	
WS002 WEST WELL	3/14/2007	
WS001 EAST WELL	3/14/2007	
5015 WELL LACKS A MEANS TO MEAS	SURE DRAWDOWN	
	Date	PWS Notified Max Pts 1
Facility	Determined	THE SECOND REPORT OF THE PERSON NAMED AND PARTY.
WS003 FAR WEST WELL	3/14/2007	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3
THE STATE OF MENT	3/14/2007	
WS002 WEST WELL	5/14/2001	
WS001 EAST WELL	3/14/2007	
S021 UNPROTECTED CROSS CONN.	PRESENT IN WELL	House
计划 电影响 医肠前层 W 的	Date	PWS Notified to the A
Facility	Determined	HE THE TAX AND THE
WS003 FAR WEST WELL	3/14/2007	
WS002 WEST WELL	3/14/2007	
W0002 W==		
	3/14/2007	
WS001 EAST WELL	3/14/2007	
	and the same of the same	
S022 LACK OF DRAIN TO DAYLIGHT	AMERICAN DESCRIPTION OF THE PROPERTY OF THE	
	Date Determined	PWS Notified Max Pts 5
Facility	3/14/2007	NATION AND THE PROPERTY OF THE
WS003 FAR WEST WELL	3/14/2007	
WS002 WEST WELL	3/14/2007	
WS001 EAST WELL	3/14/2007	
WOULL CAST WELL	5.7==+.	

Physical Facility, Administrative, & Source Protection Deficiencies from Site Visits

PWS Notified

S023. NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE PIPING

Facility

WS001 EAST WELL 7/17/2003 7/17/2003 THE DISCHARGE PIPING FOR THE EAST WELL NEEDS SMOOTHED NOSE SAMPLING TAP

WS003 FAR WEST WELL 3/14/2007

NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE PIPING

WS002 WEST WELL 7/17/2003 7/17/2003

THE DISCHARGE PIPING FOR THE WEST WELL NEEDS A SMOOTHED NOSE SAMPLING TAP

S024 NO CHECK VALVE ON DISCHARGE PIPING

PWS Notified

Facility WS003 FAR WEST WELL 3/14/2007

NO CHECK VALVE ON DISCHARGE PIPING

WS002 WEST WELL 7/17/2003 7/17/2003

THE DISCHARGE PIPING FOR THE WEST WELL NEEDS CHECK VALVE

WS001 EAST WELL 7/17/2003

THE DISCHARGE PIPING FOR THE EAST WELL NEEDS CHECK VALVE

NO PRESSURE GAUGE ON DISCHARGE PIPING

PWS Notified Facility. Determined

WS003 FAR WEST WELL 3/14/2007

NO PRESSURE GAUGE ON DISCHARGE PIPING

WS002 WEST WELL 3/14/2007 NO PRESSURE GAUGE ON DISCHARGE PIPING

WS001 EAST WELL 3/14/2007

NO PRESSURE GAUGE ON DISCHARGE PIPING

NO FLOW MEASURING DEVICE ON DISCHARGE PIPING

PWS Notified Date Facility Determined Mex Pts

WS003 FAR WEST WELL

NO FLOW MEASURING DEVICE ON DISCHARGE PIPING

WS002 WEST WELL 7/17/2003 7/17/2003 THE DISCHARGE PIPING FOR THE WEST WELL NEEDS MEASURING DEVICE

WS001 EAST WELL 7/17/2003 7/17/2003

THE DISCHARGE PIPING FOR THE EAST WELL NEEDS MEASURING DEVICE

NO SHUT OFF VALVE ON DISCHARGE PIPING

PWS Notified Date Facility Determined

WS003 FAR WEST WELL 3/14/2007 NO SHUT OFF VALVE ON DISCHARGE PIPING

WS002 WEST WELL 7/17/2003 7/17/2003 THE DISCHARGE PIPING FOR THE WEST WELL NEEDS SHUT OFF VALVE

	The Company of Carton and Administration	e Cource	e Protection Deficiencies from Site Visits
Physi		& Source	e riotection benoices water
Code	Description	noution of	
S027	NO SHUT OFF VALVE ON DISCHARGE	FE O	Could be seen and the seen and
100		Date Determined	Mex Pts 1
E. WELL	Facility	7/17/2003	7/17/2003
	WS001 EAST WELL THE DISCHARGE PIPING FOR TI	HE EAST WELL	L NEEDS SHUT OFF VALVE
SP02	NO CURRENT COPY OF SOURCE PRO	TECTION PLA	N ON SITE
31.02	S. S. Talling St. March	Date	PWS Notified Max Pts 30
E GET	Facility	Determined	TO THE OWNER THE THE RESIDENCE THE PARTY THE P
	STEVEN DNYSKO FOUND EXCE 10/22/07 DEFICIENCY REINSTAT	3/14/2007 PTION IN FILE ED - EXCEPTI	:JHO ION EXPIERED SEPTEMBER 2007 - JHO
SP06	UNAPPROVED SOURCE NO PRELIM E	VALUATION F	REPORT.
31.00		Date	PWS Notified Wax Pts 0
	Facility	Determined	The state of the s
	PER IS REQUIRED FOR SOURCE	3/14/2007 E 03	
SP08	OLD SOURCE LACKS A DWSP PLAN		PWS Notified
1.00		Determined	PWS Noured Max Pis 30
-1753	Facility	3/14/2007	CHARACTER CONTRACTOR OF THE CO
	STEVEN ONYSKO FOUND EXCE 10/22/07 DEFICIENCY REINSTA	PTION IN FILE	E - JHO ION EXPIERED SEPTEMBER 2007 - JHO
SP09	NO DWSP REVISION SUBMITTED AFT	ER REDEV O	ESOURCE THE PART THE PART THE PART THE
12		Date	PWS Notified Max Pts 20
7.45	Facility	Determined	
	STEVEN ONYSKO FOUND EXCE 10/22/07 DEFICIENCY REINSTA	3/14/2007 EPTION IN FILE TED - EXCEPT	E - JHO ION EXPIERED SEPTEMBER 2007 - JHO
1023	NO SAMPLE TAP AT FILTER EFFLUE	AT 195 OF THE	
100		Date	PWS Notified May Die 71
100	Facility	Determined	
- tipe-	TP001 EAST WELL	3/14/2007	
	The state of the s		
+000	NO DISINFECT USS REDUCE FOULIN	GMICROBIAL	PASTHRU
7031		Date	PWS Notified
200	Facility	Determined	Max Pts 0
11000	TP001 EAST WELL	3/14/2007	
-	The Control of the William Control	AND THE PARTY OF T	THE STATE OF
TD26	CL2 CONTACT TIME IS INSUFFICIENT	10 CONTRACTOR (10 CONTRACTOR)	PWS Notfled
- 100	Facility	Date Determined	CONTRACTOR OF THE PROPERTY OF
-	TP002 WEST WELL	3/14/2007	CONTRACT CON
	11 002 44 01 11222		
	57480 192, 13		
TDN	NO MEANS OF MEASURING WATER	TREATED WIT	
B B		Date Determined	PWS Notified Max Pts 2
(500)	Facility	The second	Committee and the second of th
	TP002 WEST WELL	3/14/2007	

Physical Facility, Admir	nistrative, & Sour	rce Protection Deficiencies from Site Visits
Code Description		
TG02 SOLUTION FEEDER LACK	1945 - 385 HERRIG	
Facility	Date Determine	FWS Notified Max Pts 2
TP001 EAST WELL	3/14/2007	CONTRACTOR OF THE PROPERTY OF
TG09 TANKS AND REFILL LINES	S LACK PROPER LABELII	NG CHICAGO CONTROL CON
Facility	Date Determined	PWS Notified
TP001 EAST WELL	3/14/2007	Max Pts 2
TG04 CHEMICALS ARE STORED	IMPROPERLY	The second was a first of the law
Facility	Date Defermined	PWS Notified
TP001 EAST WELL	3/14/2007	Mex Pts 2
TG07. FEED EQUIPMENT IS NOT	OPERABLE	
Facility	Date Determined	PWS Notified
TP002 WEST WELL	3/14/2007	Max Pts 0
TG12 NO ANTISIPHON PROTECT	TION ON EACH FEED FU	
Facility	Data Determined	PWS Notified Max Pts 2
TP001 EAST WELL	3/14/2007	
TG20 DAILY RECORDS DO NOT I	REFLECT DOSAGES & TO	OTALS: THE SHAW IN THE RESIDENCE OF THE RESIDENCE OF THE PARTY OF THE PARTY.
	Dale	PWS Notified.
Facility TP002 WEST WELL	Determined	Max Pts 2
Troop WEST WELL	3/14/2007	
TG21 CHEMICAL FEEDERS IMPR	OPERLY CALIBRATED	Burgal Chine Statement of the Constitution of the
Facility	Date Determined	PWS Notified Max Pts 2
TP001 EAST WELL	3/14/2007	
TG22 NO PROVISIONS FOR MEAS	SURING TOTAL CHEMICA	ALUSE TOTAL
Facility	Date Determined	PWS Notified
TP001 EAST WELL	3/14/2007	Max Pis 2
TOZZ CHEMICALS DO NOT GOMP	LY WITH ANSUNSE STAN	NDARO MANAGEMENTA DE LA COMPANIONE DE LA
	Date	PWS Notified
Facility TP001 EAST WELL	3/14/2007	Max Pts 2
,, ou, end, field	5/14/2007	

Physical Facility, Administrative, & Source Protection Deficiencies from Site Visits Description Code TG31 NO FINISHED WATER SAMPLE TAP Determined Facility 3/14/2007 TP001 EAST WELL 4/13/2007 3/14/2007 TP002 WEST WELL NO FINISHED WATER SAMPLE TAP INADEQUATE PROCESS CONTROL TESTING Determined Facility 3/14/2007 TP001 EAST WELL SYSTEM LACKS > 40% OF REQUITED STORAGE CAPACITY V034 PWS Notified Determined 3/14/2007 558 **Total Deficiency Pts** Chemical Monitoring and Quality Violations Violation Type

Violation No.	Period	Cod	Analyle/ Group	IPS Points	_
2007-1988 12361	04/01/07-06/30/07 8/6/2007		MONITORING, ROUTINE MAJOR Radionuclides	20	
2007-1976 12356	04/01/07-06/30/07 8/6/2007	03	MONITORING, ROUTINE MAJOR Pesticides	20	
			Total C	Chemical Violation Points 40	

Operator Certification Po	oints				
	Distribution	Treatment			
Level Required Highest Certificate on Record					
Points		0	Total Points	30	

Certified	Operators

License Number	Operator Name	Address	ÇEU's	Cert Grade	Expiration
23150	BUNTING, DAMON L	5 BURNS DR. CUT BANK, MT 59427	1,9	SS	12/31/2006

Total Coliform Sample History For the twelve months beginning 10/1/2006

Routine Samples		Repeat Samples		Investigative Samples				
No Samp	TC Pos	Fec Pos	No Samp	TC Pos	Fec Pos			
3	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
4	1 💘	0	4	0	0	0	D	0
4	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
0	0	0	O	0	0	0	0	0
0	0	0	0	0	0	G	0	0
4	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
	3 0 4 4 0 0 0 4 0 0	No Samp TC Pos 3	No Samp TC Pos Fec Pos 3 0 0 0 0 0 4 1 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0	No Samp TC Pos Fec Pos No Samp 3 0 0 0 0 0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 4 0 0 0 0 0 0 0	No Samp TC Pos Fec Pos No Samp TC Pos 3 0 0 0 0 0 0 0 0 0 0 0 0 4 1 0 4 0	No Samp TC Pos Fec Pos No Samp TC Pos Fec Pos 3 0 0 0 0 0 0 0 0 0 0 0 4 1 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No Samp TC Pos Fec Pos No Samp TC Pos Fec Pos No Samp TC Pos Fec Pos No Samp TC Pos No Samp TC Pos Fec Pos No Samp TC Pos Pos No Samp TC Pos Fec Pos No Samp TC Pos No Samp TC Pos Pos No Samp TC Pos	No Samp TC Pos Fec Pos No Samp TC Pos Fec Pos No Samp TC Pos 3 0

Division Staff

Division Director: Kenneth H. Bousfield (801) 536-4200

Compliance Section

The Rules Section is responsible for promulgating corresponding State rules required by the Federal Safe Drinking Water Act. Report program and compliance data to EPA. Provide outreach seminars on drinking water rules for water system managers and operators. Conduct sanitary surveys and provide technical assistance to water system managers. Track compliance of all public drinking water systems for monitoring, reporting and quality requirements... Compinates with the State Health Laboratory on analytical issues.

Engineering Section

The Engineering Section is responsible for reviewing drinking water project plans and specifications for compliance with State rules and sound engineering principles, inspect drinking water projects under construction for acherence to approvals given, and inspect water treatment plants.

Special Services Section

The Administrative Services Section is responsible for administering the Drinking Water Source Protection Program, providing lechnical assistance to water treatment plants, conducting special studies, and providing support services (budgeting, purchasing, contracting, grants administration, etc.) for the Division.

Mark Hansen Cheri Heath Brad Holdaway Janet Lee Don Lore John Oakeson	(801) 536-4196 (801) 536-4467 (801) 536-4205 (801) 536-0070 (801) 536-0063 (801) 536-0083 (801) 536-4204 (801) 536-4204
Brett Shakespear -	(801)536-4198

Ken Wilde, Manager	(801)536-4197
Mark Bertleson -	(801)536-0087
Bill Birkes	(801)536-4201
Julie Cobleigh	(801)536-4197
Michael Grange	(801)536-0069
Bob Hart	(801)536-0054
Mike Mortensen	. (801)536-0039
Steve Onysko	(801)536~0096
Rich Peterson	(801)536-4053
Frank Roberts	(801)536-0098
Karin Tatum	(801)536-0099

	(801)536-4206
	(801)536-4199
Jim Martin	(801)536-4494
Eva Nieminski	(801)536-4189

Division FAX Number (801) 536-4211

Visit our website at: http://drinkingwater.utah.gov

OCTOBER 30, 2007 LETTER



State of Utah

Department of Environmental Quality

Richard W. Sprott Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director

Drinking Water Board
Anne Erickson, Ed D., Chair
Myron Bateman, Vice-Chair
Ken Bassett
Daniel Fleming
Jay Franson, P E.
Helen Graber, Ph D.
Paul Hansen, P E.
Petra Rust
Richard W. Sprott
David K. Stevens, Ph. D.
Ron Thompson
Kenneth H. Bousfield, P E.

Executive Secretary

JON M. HUNTSMAN, JR. Governor

GARY HERBERT Lieutenam Governor

October 30, 2007

Lynn Overtree Long Valley Estates 610 San Miguel Canyon Road Royal Oaks, California 95076

Dear Mr. Overtree:

Subject: Notice of Violation and Administrative Order, Long Valley Estates
Drinking Water System #UTAH13050

Division of Drinking Water records indicates that you are the responsible party for the Long Valley Estates drinking water system.

Long Valley Estates drinking water system is a public water system and as such is subject to the Administrative Rules for Public Drinking Water Systems (copy available upon request). Under Utah Administrative Code R309-100-4, a water system is considered a public water system when 25 or more people are served water for at least 60 days, or 15 or more water system connections are served.

In the last year of operation, 304 points have been accessed against Long Valley Estates drinking water system. Under our Improvement Priority System (IPS) Non-community water systems exceeding 120 points are rated "Not Approved" and placed on a priority list for enforcement actions. The Long Valley Estates drinking water system is currently rated "Not Approved" by our office. Further, because of these violations, the Drinking Water Board is issuing the attached Notice of Violation and Order (NOVO) to ensure compliance.

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Lynn Overtree Page 2 October 25, 2007

Please give this order your immediate attention. A written response is required within 30 days after receipt of this NOVO. This order is fully enforceable unless appealed in writing within 30 days, as described in the "Notice" section of the Notice of Violation and Order. Any response or written answer to this NOVO should be addressed to Ken Bousfield, P.E., Executive Secretary, Drinking Water Board, c/o Division of Drinking Water, 150 North 1950 West, P. O. Box 144830, Salt Lake City, Utah 84114-4830.

If you have any questions, or wish to review the water system on-site please call Elden Olsen, of my staff, at (801) 536-4097. A phone call to the Division of Drinking Water or an on-site visit does not alter the requirement to timely respond in writing if you wish to contest this NOVO

Sincerely,

DRINKING WATER BOARD

Monful Kenneth H. Bousfield, P.E.

Executive Secretary

ELO

Attachments

Fred Nelson, Assistant Attorney General ÇC:

John Chartier, P.E. District Engineer, Southwest Utah Public Health Department Randy Taylor, P.E., District Engineer, Southwest Utah Public Health Department Rod Cosslett, E.H.S., Southwest Utah Public Health Department

Kathelene Brainich, US EPA Region 8 Denver

Kane County Commission, 76 North Main St, Kanab, UT 84741

Kane County Building Inspector, 76 North Main St, Kanab, UT 84741

U:\dr_water\COMPLI\jyee\wp\Compli\Elden\Long Valley Estates AO doc

DRINKING WATER BOARD

In the Matter of: Long Valley Estates Drinking Water System #UTAH13050 Notice of Violation and Order

Case No. 0709542

The Drinking Water Board ("Board") issues this Notice of Violation and Order under the Utah Safe Drinking Water Act ("Act"), Utah Code Annotated §§ 19-4-104, -105, -106, -107, and -109, Utah Administrative Code ("UAC") Rules 309-100 to-705 and in accordance with the Utah Administrative Procedures Act, Utah Code Annotated §§ 63-46b -0.5 to -23.

FACTS AND VIOLATIONS

- 1. The **Long Valley Estates** Drinking Water System is a public water system in Iron County that provides drinking water to approximately 200 people through 40 active connections. Lynn Overtree is the Manager of the **Long Valley Estates** Drinking Water System.
- 2. A copy of Long Valley Estates Drinking Water System's IPS report (copy enclosed) delineates the 304 points that have been assessed against the water system.
- 3. Based on the Division of Drinking Water's records, the **Long Valley Estates** Drinking Water System has bacteriologic quality and monitoring violations in violation of UAC R309-210-5 as follows:
 - A. Major bacteriological routine monitoring violation in 7/1/06 9/30/06.
 - B. Major bacteriological routine monitoring violation in 10/1/06 12/31/06.
- 4. Based on Division of Drinking Water's records, **Long Valley Estates** ST001 Long Valley storage tank is not secure. This is in violation of UAC R309-545-18.
- 5. **Long Valley Estates** has failed to complete source protection plan for WS003 (Long Valley Estates Well) in violation of UAC R309-600-7.
 - A. Long Valley Estates does not have a current inventory of contamination sources.
 - B. Long Valley Estates does not have a land management strategy on file.

ORDER

As a part of your responsibilities under Utah Administrative Code, R309-100-9, the management of the Long Valley Estates is hereby ordered to provide the Division of Drinking Water written evidence of completion of the following items according to the deadlines given below:

- Long Valley Estates must immediately begin to come into compliance with all
 monitoring requirements of UAC R309-210-5 involving bacteriologic monitoring.
- 2. Long Valley Estates must secure the Long Valley Estates storage tank ST001 as required by UAC R309-545-18.
- 3. Long Valley Estates is required to develop, submit and implement a Drinking Water Source Protection (DWSP) plan for its sources and update and must resubmit the DWSP plan every 6 years as required by UAC R309-600-7.

NOTICE

If the management of Long Valley Estates Drinking Water System wishes to contest this "Notice of Violation and Order", they must respond in writing and request a hearing before the Board. The response and request for hearing must be received by the Executive Secretary (at the address below) within 30 days of the date shown on the certificate of mailing. See Utah Code Annotated § 63-46b-3 (2)(a)(vi) and Utah Code Annotated § 63-46b-12. If you do not request a hearing in writing and participate in the hearing, the Order will become final and you will not be allowed to contest this Notice of Violation in court. See Utah Code Annotated § 63-46b-14 (2). Utah Code Annotated § 19-4-109 states that anyone who violates the Utah Safe Drinking Water Act, permit, rule, or order is subject to a civil penalty of up to \$1,000 per day of violation. Willful violators may be fined up to \$5,000 per day.

Issued this 30 day of Octobe, 2007.

DRINKING WATER BOARD

By: Cenneth Monsto

Kenneth H. Bousfield, P.E.

Executive Secretary

Drinking Water Board

C/O Division of Drinking Water

P.O. Box 144830

Salt Lake City, Utah 84414-4830

Phone: (801) 536-4200

CERTIFICATE OF MAILING

I certify that on Other 30, 2007, I caused to be mailed a true and correct copy of the Foregoing NOTICE OF VIOLATION AND ORDER to:

BY CERTIFIED MAIL TO:

Lynn Overtree Long Valley Estates 610 San Miguel Can R Royal Oaks, California 95076

BY REGULAR MAIL TO:

Kathelene Brainich U.S. EPA Region VIII P-W-TF 1595 Wynkoop Street Denver, Colorado 80202-1129

Fred Nelson Attorney Generals Office 160 East 300 South, Fifth Floor P.O. Box 140873 Salt Lake City, Utah 84114-0873

Rod Cosslett, Environmental Director Southwest Utah Public Health Department 260 DL Sargent Drive Cedar City, Utah 84720

John Chartier, P.E., District Engineer Southwest District Office 260 DL Sargent Drive Cedar City, Utah 84720

Randy Taylor, P.E., District Engineer Southwest District Office 168 East 100 North St. George, Utah 84770

Kane County Commission 76 North Main St Kanab, Utah 84741

Kane County Building Inspector 76 North Main St Kanab, Utah 84741

Ken eth H Bousfield, PE.

Executive Secretary

Attachment A

Explanation and Required Elements for Public Notice To Be Sent to Each Customer of Your Water System. The following violations have occurred for the Arrowhead Investment Inc., Drinking Water System:

Failure to take routine monitoring in 7/1/06 - 9/31/06 and 10/01/06 - 12/31/06.

Long Valley Estates must monitor for bacteriologic quality of 1 sample per quarter for the 2nd, 3rd and 4th quarters. When a violation occurs, we must notify our customers in writing. A major monitoring violation occurs when no samples were collected during the month. For Arrowhead Investment Inc., one bacteriologic sample must be collected each quarter except the 4th quarter. If a sample is unsatisfactory, at least four "repeat" samples must be collected DURING THE SAME MONTH. In addition, the following month, at least five additional samples must be collected. A major repeat monitoring violation occurs when no "repeat" samples are collected for any unsatisfactory sample. A non-acute MCL Quality violation occurs when a system collecting less than 40 total coliform samples per month has one or more total coliform-positive sample during the month

Bacteriologic sampling is performed because the U.S. Environmental Protection Agency (EPA) has determined that the presence of total coliforms (the organism tested for) is a possible health concern. Total Coliforms are common in the environment and are generally not harmful themselves. The presence of these bacteria in drinking water, however, generally is a result of a problem with water treatment or the pipes which distribute the water, and indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include: diarrhea, cramps, nausea, and possibly jaundice, and any associated headaches and fatigue. These symptoms, however, are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. EPA has set an enforceable drinking water standard for total coliforms to reduce the risk of these adverse health effects. Under this standard, no more than one total coliform-positive sample per month may be present. Drinking water which meets this standard is usually not associated with a health risk from disease-causing bacteria and should be considered safe.

Finally, Long valley Estates Drinking Water System management should include a brief statement describing why the violations occurred (perhaps the sampler was not aware of the sampling requirements) and what you are doing to prevent the violations discussed above from reoccurring (perhaps by saying he/she is receiving additional sampling training, etc.).

Attachment B

Sanitary Survey results of surveys conducted June 5, 2007 by Elden L. Olsen of the Division of Drinking Water.



State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D. Executive Director

DIVISION OF DRINKING WATER Kenneth H. Bousfield, P.E. Director JON M. HUNTSMAN, JR. Governor

> GARY HERBERT Lieutenant Governor

> > June 14, 2007

Jeff Hoyt Long Valley Estates PO Box 1262 Duck Creek Village, Utah 84765

Dear Mr. Hoyt

Subject: Sanitary Survey Long Valley Estates System # 13050

I would like to thank you and Ray Kiney for taking the time to meet with me to conduct a sanitary survey of the Long valley Estates drinking water system on June 5, 2007.

The Utah Division of Drinking Water Improvement Priority System Rule, R309-150, rates public drinking water systems. Points are assigned based on violations of the Drinking Water Rules found. Points assessed during a sanitary survey will become part of the total IPS points if not corrected within the time frame specified in this report. Any Community system that exceeds 150 points will be rated as "Not Approved" if corrections are not made.

The following deficiencies were noted during the sanitary survey:

- 1. Storage Facility access opening is lacking a proper gasket. 20 IPS points have been assigned to this deficiency. These points become effective June 5, 2007
- 2. Storage Facility access opening is lacking a proper gasket. 3 IPS points have been assigned to this deficiency. These points become effective September 13, 2007.
- 3. Long valley Estates source protection plans were submitted but disapproved. 150 IPS points have been assigned for this deficiency. These points become effective June 5, 2007.
- 4. Long Valley Well lacks: 1) a smoothed nosed sampling tap, 2) a pressure gauge,
 3) a flow meter have an emergency Response Plan. One point for each item. 3
 IPS points have been assigned for this deficiency. These points become effective

Page 2 Jeff Hoyt June 14, 2007

September 14, 2007.

5. Long Valley Well has no means to release trapped air from pump. 6 IPS points have been assigned for this deficiency.

Enclosed are copies of the completed survey questions and deficiency report. The Division of Drinking Water will provide a copy of your IPS Report after their staff has transferred the sanitary survey information into their main database.

We encourage you to take the necessary actions to correct the noted deficiencies. Once the deficiencies are corrected, please use the enclosed IPS Deficiency Correction Notice to notify our office so that we can delete the appropriate IPS points assigned for that deficiency. Please use your water system number 13050 in all of your correspondence to our office.

If you have questions or if we can be of further assistance in preparing for your survey please feel free to contact me at (801) 536-4097 or e-mail <u>Eldenolsen@utah.gov</u>.

Sincerely,

Elden L.O.

Elden L. Olsen

Environmental Scientist

Enclosures

cc: Rod Cosslet Randy Taylor John Chartier

U:\dr_water\COMPL\Eldenolsen\sansur\sansur\2007\Southwest\Long Valley Estates_13050_ss Report letter

Sanitary Survey - Deficiency Report

PWS Number: UTAH13050

Total Demerit Points: 182

Survey Date:

Surveyor Name: Elden Olsen 6/14/2007

Sanitary Survey Category: FW

Survey Name: LONG VALLEY ESTATES

SDWIS Severity Code: Significant Deliciency

Storage / STORAGE FACILITY ST001 . (Active) / Components

Are outside access hatches locked?

Answer Recorded No

R309-545-14(3) requires any access opening shall have a locking device. Comments: R309-545-14(3)

26 demerit points. This deficiency should be corrected immediately.

Notes:

x no lock and need to manufacture a bar for the lock,

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description:

SDWIS Severity Code: Minor Deficiency

Storage / STORAGE FACILITY ST001 . (Active) / Components

Access openings: Is the lid properly gasketed?

Answer Recorded No

Comments: R309-545-14(2)

the frame at least two inches and is furnished with a gasket(s) between the with a close fitting solid shoebox type cover which extends down around R309-545-14(2) states the frame of any access opening shall be provided lid and frame. 3 demerit points. This deficiency should be corrected within 90 days of notification.

Notes:

Demerit Points:

8 Days to Correct Deficiency: SDWIS Deficiency Description:

STORAGE FACILITY ACCESS LACKS PROPER GASKET

Sanitary Survey Category: SO

SDWIS Severity Code: Significant Deficiency

Sources / General / General

Are there any undocumented source(s) physically connected to the drinking water system? (If source is not on system inventory mark "yes")

Answer Recorded Yes

Comments: R308-105-8 R309-105-6 req

R309-195-6 requires all construction of public drinking water facilities be approved in writing by the Division of Drinking Water. 150 demerit points. This deficiency should be corrected immediately.

Notes:

x plan was submitted but was rejected by the State.

Demerit Points: 150

Days to Correct Deficiency:

SDWIS Deficiency Description: S001

SOURCE LACKS PLAN APPROVAL

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / LONG VALLEY WEL - (Active) / Pumps

Pump discharge piping: a smooth-nosed sampling tap?

Answer Recorded No

Comments: R309-515-6(12)(e)(iv) R309-515-6(12)/

R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with (in order of placement from the wellbead) a smooth nosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

SDWIS Deficiency Description: S023

NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE

一世 经营业

177.14

Sanitary Survey Category: SO

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / LONG VALLEY WEL - (Active) / Pumps

Pump discharge piping: pressure gauge?

Answer Recorded No

Communits: R309-515-6(12)(e)(W) R309-515-6(1

R309-515-6(12)(e)(iv) states the discharge piping shall be equipped with (in order of placement from the wellhead) a smooth nosed sampling tap, a check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description: S025 NO P

NO PRESSURE GAUGE ON DISCHARGE PIPING

Pump discharge piping: flow meter?

Answer Recorded No

(in order of placement from the wellhead) a smooth nosed sampling tap, a R309-515-6(12)(e)(Iv) states the discharge piping shall be equipped with check valve, apressure guage, a means of measuring flow and a shutoff valve. I demerit point per item missing. This deficiency should be Comments: R309-515-6(12)(e)(iv)

corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency: 90

NO FLOW MEASURING DEVICE ON DISCHARGE PIPING SDWIS Deficiency Description:

54.4

Sanitary Survey Category: SO

SDWIS Severity Code: Minor Deficiency

Sources / Groundwater / LONG VALLEY WEL - (Active) / Pumps

Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?

Answer Recorded No

R309-515-6(12)(e)(v) requires a well that pumps directly into the Comments: R309-515-6(12)(e)(v)

distribution system he equipped with an air release vacuum relief valve located upstream of the check valve. 6 demerit points. This deficiency

should be corrected within 90 days.

Notes:

Demerit Points:

Days to Correct Deficiency:

SDWIS Deficiency Description: SL01

NO MEANS TO RELEASE TRAPPED AIR FROM SOURCE

PUMP

Sanitary Survey - Survey Responses

PWS Number	r: UTAH13050	Survey ID:	564	Survey Date:	6/14/2007
Survey Name	LONG VALLEY ESTATES	A		User Name:	Elden Olsen
Question Nun					
General / E	Background Info				
Name/Loca					Α.
1	Name of public water system:			LONG VALLEY ESTATES	
		5 6 7			
2	PWS number:			UTAH13050	
3	Physical address				
	Notes: x Hwy 89 3Miles North of Lang Valle	ey Junction to Cedar	City	-	
4	County:			Kane	
5	Local Health Department			Bear River HD Central Utah HD Davis County HD	Southeast Utah HD Southwest Utah HD Summitt County HD
14,1			14	Salt Lake County HD	Tooele County HD
General / B	Background Info		179		
Classification	on:	TImant Consoitu	(MCD):	44.11	
> 1	Total System - Design Water Production /	Treatment Capacity	(MOD).	0	
2	Actual average daily demand (MGD):			0	
3	Actual peak daily demand (MGD):			7	
34	SDWA classification of system			☐ C - Community ✓ NC - Non Community trans ☐ NP - Non Public	ient
			10	NTNC - Non Transient Non	Со
5	Number of service connections:				

jestion Nu		-		DESCRIPTION OF THE PROPERTY OF THE PARTY OF
5.01	Number of residential connections:		40	-
6	Residential population:		200	-
7	Seasonal operation?		☐ Yes ☑ No	
			□ NA	
			Unknown	
7,01	Numeric Month of opening.		5	
7.01	realite in the second of the s			
7.02	Numeric Day of opening.		1	
1.02	Numeric Day of the			
7.00	Numeric Month of closing.		10	
7.03	Manual Control of Cont			-
				1.
7.04	Numeric Day of closing.		31	
7.04	realization and a second			T 9
8	Purchase water?		Yes	
- 14			☑ No □ NA	
	100		Unknown	* A 22 Tells *
0.4	If yes, name of system purchased from:			
8,1	it yes, name or eyesser p			
	System purchased from - PWS number:			
8.2	System porsitation from			
195	Call water\$		Yes	
9	Sell water?		✓ No	
			NA Unknown	

9.02

System(s) sold to PWS number.

General / Background Info Owner: F - Federal P - Private Owner type: L - Local S - State Government ☐ M - Mixed N - Native American Legal ownership by (name or entity) UTAH13050 2 Principal Executive or CEO, Last Name OVERTREE 3 Principal Executive or CEO, First Name LYNN 610 San Miguel Canyon Roed Owner's address Owner's address - City ROYAL OAKS □ vr Owner's address - State 7 Owner's address - Zip code 95076 Owner's telephone Owner's email address 10 General / Background Info Staff: System Manager's Last name OVERTREE 1

LYNN

2

System Manager's First name

MB - Maintoba NS - Nova Scotie NB - New Bronswick ON - Ontario	3	System Manager's address	610 SAN MIGUEL CAN R
System Manager's address - State AL - Alberta			
System Manager's address - State Bc - British Columbia NT - Northwest Territor Bc - British Columbia NT - Northwest Territor NB - New Scotia NB - New Scotia NB - New Scotia NB - New Scotia NB - New Broaswick ON - Ontario ON - Ontario	4	System Manager's address - City	ROYAL OAKS
System Manager's address - State Bc - British Columbia NT - Northwest Territor Bc - British Columbia NT - Northwest Territor NB - New Scotia NB - New Scotia NB - New Scotia NB - New Scotia NB - New Broaswick ON - Ontario ON - Ontario			
System Manager's address - Zip code 95076 System Manager's telephone System Manager's email address Main Operator's Last name Hoyt Main Operator's First name Jeff Main Operator's address Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta BC - British Columbia NT - Northwest Territor MB - Manitoba NS - Nova Scoda	Š	System Manager's address - State	BC · British Columbia NT - Northwest Territori MB · Manitoba NS · Nova Scotia
System Manager's telephone System Manager's email address Main Operator's Lest name Hoyt Main Operator's First name Jeff Main Operator's address Main Operator's address Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor NB - Maniroba NS - Nova Scotia NS - Nova Scotia			
System Manager's email address Main Operator's Last name Hoyt Main Operator's First name Jeff Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor NS - Nova Scotia NS - Nova S		System Manager's address - Zip code	95076
System Manager's email address Main Operator's Last name Hoyt Main Operator's First name Jeff Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor NS - Nova Scotia NS - Nova S			
Main Operator's Lest name Hoyt Main Operator's First name Jeff Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor MB - Manitoba NS - Nova Scotia		System Manager's telephone	
Main Operator's Lest name Hoyt Main Operator's First name Jeff Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor MB - Manitoba NS - Nova Scotia			
Main Operator's First name Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor NB - Maniroba NS - Nova Scotia		System Manager's email eddress	
Main Operator's First name Main Operator's address 11 Empty Saddle Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta NF - Newfoundland NT - Northwest Territor NB - Maniroba NS - Nova Scotia			
Main Operator's address Main Operator's address - City Duck Creek Village Main Operator's address - State Duck Creek Village AL - Alberta Dr - Newfoundland NF - Newfoundland NT - Northwest Territo MB - Maniroba NS - Nova Scotia		Main Operator's Last name	Hoyt
Main Operator's address - City Duck Creek Village Main Operator's address - City Duck Creek Village Main Operator's address - State AL - Alberta BC - British Columbia NT - Northwest Territo MB - Maniroba NS - Nova Scotia			
Main Operator's address - City Duck Creek Village Main Operator's address - State Duck Creek Village AL - Alberta Dr - Newfoundland Dr - Northwest Territo MB - Maniroba Dr - Nova Scotia		Main Operator's First name	Jeff
Main Operator's address - City Duck Creek Village Main Operator's address - State Duck Creek Village AL - Alberta Dr - Newfoundland Dr - Northwest Territo MB - Maniroba Dr - Nova Scotia			
Main Operator's address - State AL - Alberta NF - Newfoundland BC - British Columbia NT - Northwest Territo MB - Maniroba NS - Nova Scotia		Main Operator's address	11 Empty Saddle
Main Operator's address - State AL - Alberta NF - Newfoundland BC - British Columbia NT - Northwest Territo MB - Maniroba NS - Nova Scotia			
Main Operator's address - State BC - British Columbia NT - Northwest Territo MB - Maniroba NS - Nova Scotia	2	Main Operator's address - City	Duck Creek Village
Main Operator's address - State BC - British Columbia NT - Northwest Territo MB - Maniroba NS - Nova Scotia			
		Main Operator's address - State	BC - British Columbia NT - Northwest Territo

4356824779

15

Main Operator's telephone

Main Operator's email address	hoyt1@yahoo.com
Main Operator's Certification Level	D2 & T1
Emergency phone number.	4356163012
Zimergendy priorite management	
System FAX number.	4356823526
Background Info	
Date of last sanitary survey:	7/13/2000
Last survey conducted by - name	
List deficiencies from previous survey	
Have all deficiencies noted during previous survey been corrected?	☐ Yes ☐ No ☐ NA
	Unknown
If no, list item number for remaining deficiencies	
SDWIS Site Visit Info	
Reason for the visit.	SNSV - Sanitary Survey TRNG - Training SSVF - Sanitary Survey Follow- LABC - Laboratory certification
	SHAZ - Sanitary Hazards Invest EMRG - Emergency assistant TRTP - Water Treatment Plant ENGR - Engineering
Questions sent to water system on:	05/17/2007
	210
Notify Local Health Department.	05/17/2007
	Emergency phone number. System FAX number. Background Info Survey Info: Date of last sanitary survey: Last survey conducted by - name List deficiencies from previous survey Have all deficiencies noted during previous survey been corrected? If no, list item number for remaining deficiencies SDWIS Site Visit Info Reason for the visit.

Question Nu	The state of the s	Language and the second
4	Date of the survey	06/05/2007
		F3
5	Survey Status	✓ C - Completed□ P - Planned
	11.0	
6	Last name of surveyor:	Olsen
9.5		
	8	
		Elden L
7	First name of surveyor.	Eldell
8	Surveyor's organization	DDW
9	Surveyor phone number	8015364097
		·
10	Surveyor e-mail	Eldenoisen@ulah.gov
10	ourrejer e ma	9
9535	Water system representatives present during the survey:	Jeff Hayt
11	Water system representatives present during the outroy.	Jen Huye
	Notes: Ray Kiney - Long Valley Estats worker))
12	Official notification of report results sent to water system.	06/12/20 07
Dooulatio	ns / Plans/Records	
Keguiano	iis / i luner >	
33	Does the (TCR) sample site plan meet the minimum requirements?	✓ Yes
5).	(Answer no, il no plan is present)	□ No
		☐ NA☐ Unknown
Managem	ent / General	
1	Does the system haul water?	Yes
2.1		M No □ NA
		Unknown
	and the second s	Yes
101	Is the water system a community water system?	No
		□ NA
		Unknown

Total Community public water systems is there any other way to supply Ye good quelity drinking water? No No No No No No No N	Question	Number	
an approved source, periodically clean and disinfect equipment, load, disinfect water and unload water properly) 2 Have there been any customer complaints about a new taste, odor, cotor, or other physical change (eily, filmy, burns on contact with skin, etio) with regard to the water provided? 3 Is there a procedure in place to respond immediately to such customer complaint? 4 Interval	1.02	good quality drinking water?	□ No □ NA
or other physical change (edly, flimy, burns on contact with skin, etc) with regard to the water provided? Is there a procedure in place to respond immediately to such customer complaint? Is there a procedure in place to respond immediately to such customer complaint? Yes No No No No No No No N	1.03	an approved source, periodically clean and disinfect equipment, load,	□ No □ NA
No No No No No No No No	2	or other physical change (oily, filmy, burns on contact with skin, etc) with	✓ No □ NA
General: 1 The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) 1.01 Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section) 1.02 Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section) 1.03 Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section) 1.04 Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) 1.05 Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) 1.06 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 2 The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) 1.06 Does the system meet a minimum of 90% of the required storage capacity? Ves No NA 1.07 Unknown 1.08 Unknown 2 The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) 1.07 Unknown 1.08 Unknown 1.09 Ves 1.09 NA 1.09 1.09		complaint?	□ No □ NA
The system does not meet the required source capacity requirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) 1.01 Does the system meet a minimum of 90% of the required source capacity? (Answer only once in this section) 1.02 Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section) 1.03 Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section) 1.04 Does the system meet a minimum of 50% of the required source capacity? (Answer only once in this section) 1.05 Does the system meet a minimum of 50% of the required source capacity? (Answer only once in this section) 1.06 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 1.07 The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) 1.06 Does the system meet a minimum of 90% of the required storage capacity? (Answer only once in this section) 1.07 The system does not meet a minimum of 90% of the required storage capacity? (Answer only once in this section)			
Tequirements? (Answer "No" if source capacity is adequate, use Excel spreadsheet for calculations) NA NA	General		П.,
1.01 Does the system meet a minimum of 90% of the required source capacity? (Answer only once in this section) 1.02 Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section) 1.03 Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section) 1.04 Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) 1.05 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 1.06 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 1.07 The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) 1.08 Does the system meet a minimum of 90% of the required storage capacity? Yes No NA 1.09 Does the system meet a minimum of 90% of the required storage capacity? Yes No NA	1	requirements? (Answer "No" if source capacity is adequate, use	☑ No
capacity? (Answer only once in this section) 1.02 Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section) 1.03 Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section) 1.04 Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) 1.05 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 1.06 Does the system meets less than 60% of the required source capacity? (Answer only once in this section) 1.07 The system does not meet the required storage capacity requirements? (Answer 'No' if storage capacity is adequate, use Excel spreadsheet for calculations) 1.06 Does the system meet a minimum of 90% of the required storage capacity? Yes capacity? (Answer only once in this section) 1.08 Does the system meet a minimum of 90% of the required storage capacity? Yes capacity? (Answer only once in this section)			Unknown
Unknown Unknown Unknown Unknown Unknown Yes No No No No No No Unknown Ves Unknown Ves No No No No No No No N	1.01	Does the system meet a minimum of 90% of the required source capacity? (Answer only once in this section)	□ No
capacity? (Answer only once in this section) No			
Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section) Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) Does the system meets less than 60% of the required source capacity? (Answer only once in this section) Does the system meets less than 60% of the required source capacity? (Answer only once in this section) The system does not meet the required storage capacity yes requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) Does the system meet a minimum of 90% of the required storage capacity? Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA NA NA NA NA NA NA NA NA	1,02	Does the system meet a minimum of 80% of the required source capacity? (Answer only once in this section)	□ No
capecity? (Answer only once in this section) No		4	
Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section) Does the system meets less than 60% of the required source capacity? (Answer only once in this section) The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) Toes the system meet a minimum of 90% of the required storage Does the system meet a minimum of 90% of the required storage Capacity? (Answer only once in this section) Does the system meet a minimum of 90% of the required storage Capacity? (Answer only once in this section)	1.03	Does the system meet a minimum of 70% of the required source capacity? (Answer only once in this section)	□ No
Capacity? (Answer only once in this section) No			<u> </u>
Does the system meets less than 60% of the required source capacity? (Answer only once in this section) The system does not meet the required storage capacity requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) The system does not meet the required storage capacity Ves No No Unknown Vinknown Vinknown Vinknown Vinknown Vinknown Vinknown Vinknown Vinknown No	1.04	Does the system meet a minimum of 60% of the required source capacity? (Answer only once in this section)	□ No □ NA
requirements? (Answer "No" if storage capacity is adequate, use Excel spreadsheet for calculations) No	1 05	Does the system meets less than 60% of the required source capacity? (Answer only once in this section)	☐ Yes ☐ No ☐ NA
2.01 Does the system meet a minimum of 90% of the required storage capacity? (Answer only once in this section)	2	requirements? (Answer "No" If storage capacity is adequate, use	✓ No □ NA
□ NA	2.01	Does the system meet a minimum of 90% of the required storage	Yes
	T.	capacity: (Alletter only elice in the sector)	□ NA

Qυ	estion Nui	Doct	CONTRACTOR OF THE PARTY OF THE
	2.02	Does the system meet a minimum of 80% of the required storage capacity? (Answer only once in this section)	Yes No NA Unknown
	2,03	Does the system meet a minimum of 70% of the required storage capacity? (Answer only once in this section)	☐ Yes ☐ No ☐ NA ☐ Unknown
	2.04	Does the system meet a minimum of 60% of the required storage capacity? (Answer only once in this section)	Yes No No Unknown
	2.05	Does the system meet less than 60% of the required storage capacity? (Answer only once in this section)	Yes No No NA Unknown
	3	Has there been any recent modifications to the water system?	Yes No No NA Unknown
	3.01	DDW review of recent modifications:	Yes No NA Unknown
	3.02	Recent modifications - Briefly describe the project.	
Ma	nagem	Are there any undocumented water system facilities? (i.e. tanks, pump stations, treatment facilities, etc.) ent / Emergency Response	Yes No NA Unknown
	3	Does your system serve less than 3300 in population?	✓ Yes☐ No☐ NA☐ Unknown
	1,01	Does your system have a written Emergency Response Plan?	☐ Yes ☐ No ☑ NA ☐ Unknown
	1 02	Has your Emergency Response Plan been updated within the last 3 years?	☐ Yes ☐ No ☑ NA ☐ Unknown
	2	Does your system serve a population of 3300 or greater?	☐ Yes ☑ No ☐ NA ☐ Unknown
	2.01	Does your system have the EPA required Emergency Response Plan?	Yes No NA Unknown

Que	estion Nu	mber	eres 200		- A STEEL THE PARTY OF		-	
and the state of t	2.02	Has your Emergency Response Plan been updated within the last 3 years?		Yes No NA Unknown		0.312-6		ew.e.w
Man	<u> 1agem</u>	ent / Cross-Connections						
			_					
	1	Are there any unprotected connections between the distribution system and any pipes, pumps, hydrants, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into the system?	\mathbf{Z}	Yes No NA				
				Unknown				
	2	Does the water system have all 5 of the following elements of a written cross-connection control program ?						
	2.01	Legally adopted authority statement?	¥	Yes				
				No NA Unknown				
	2.02	Documentation of annual public awareness and/or employee training?		Yes No NA				
				Unknown				
	2.03	Documentation of personnel trained to manage the program?		Yes No NA	07			
lagged ollow-r		Notes: Jeff Hoyf	ŏ	Unknown				
	2.04	Records of hazards found, protection required and installed, enforcement actions, assembly testing etc.?		Yes No NA Unknown				
	2.05	Documentation of on-going program enforcement? (is records of periodic hazard assessments, annual test report, updated assembly inventory, etc)		Yes No NA Unknown				
		A LCA PP						
<u>Mar</u>	nageme	ent / Staffing						
	1	Is the main operator properly certified at the level required for the system?		Yes No NA Unknown				
	2	If there is a certified operator, are they available within 1 hour travel time at all times as required by R309-300 (Operator Certification Rule)? (If no certified operator is present answer NA)		Yes No NA				
				Unknown				
Man	nageme	ent / Source Protection						
	. 1	Has the system appointed a designated person for their source protection program and notified the Division of Drinking Water who that person is?		Yes No NA				
		Notes: Jeff Hoyf	_	Unknown			100	
			_					

2	Is their phone number and address different from the water system?	✓ Yes ✓ No □ NA
		Unknown
2.01	Updated address.	
2.02	Updated phone number.	
0.00	is there a current copy of each of the DWSP Plans on the premises of	Yes
3	the water system? (If this is a transient non-community, they should have a copy of their assessment on the premises.)	□ No ☑ NA
		Unknown
4	Are the following Items in the Source Protection Plans kept up to date in order to show current conditions in the DWSP zones, including:	
4,01	Is the inventory of potential contamination sources current?	Yes
4,01	is the arrest, and	□ No ☑ NA
		Unknown
	Implementation of land management strategies in the recordkeeping	Yes
4.02	section? The recordkeeping section must include copies of ordinances, codes, permits, public education programs, minutes of meetings, etc.	□ No ☑ NA
		☐ Unknown
5	Are there any new sources for which a Preliminary Evaluation Report has	Yes
550	not been submitted?	□ No ☑ NA
		Unknown
6	Are there any old sources that have come into use for which a DWSP	☐ Yes
130	Plan has not been submitted?	☑ No □ NA
		Unknown
7	Has there been reconstruction or redevelopment of any ground-water	Yes
	source for which a revised DWSP Plan has not been submitted?	☑ No □ Na
		Unknown
Sources / C	Seneral	
General:	(c) who size the same anticed to the	✓ Yes
1	Are there any undocumented source(s) physically connected to the drinking water system? (If source is not on system inventory mark "yes")	□ No
otential Deficienc	Notes: x plan was submitted but was rejected by the State.	□ NA □ Unknown
		Unknown
Sources / C	<u>Groundwater</u>	
LONG VA	LLEY WEL - (Active) / Construction:	
1	The well casing does NOT extend a minimum of 18 inches above the	Yes
	(inished ground surface or 12 inches above the well house floor? (Answer "No" if standard is met)	☑ No □ NA
	WIDAR IN II SPRINGER OF LINES	Unknown
		CHARDOWN

Question Nu	amber	1444,000	-	-	 on the same
1.01	Is the well site in a flood plain or area likely to be flooded?		Yes		
11775741		님	No		
		님	NA		
			Unknown		
	is the sanitary seal properly installed and maintained?	\checkmark	Yes		
2	is the sanitary sear properly instance and manner		No		
			NA		
			Unknown		
		V	W		
3	Is there a pitless adapter?	*	Yes No		
		Ħ	NA NA		
		Ħ	Unknown		
		_			
3.01	Does the pitless adapter appear to be water tight including the cap,	✓			
3.01	cover, casing extension and other attachments?		No		
		\vdash	NA		
		\sqcup	Unknown		
			Yes		
4	Is the well casing vented?	V			
		Ö	NA		
			Unknown		
4.01	is the open end of the vent screened with a #14 mesh screen?	님	Yes		
-,,,,,	N .	님	No		
		片	NA Unknown		
			Ulklown		
4.00	Is the open end of the vent down-turned?		Yes		
4.02	is the open and of the form	\sqsubseteq	No		
			NA		
			Unknown		
	and a second with an appropriate six gap above		Yes		
4.03	Is the open end of the vent terminated with an appropriate air gap above	Ħ	No		
	the ground?		NA		
			Unknown		
5	Is there a pump to waste line from the well?	7	Yes No		
4			NA NA		
		H	Unknown		
			Опкноми		
E-04	Does the pump to waste line discharge through an approved air gap?	Ц	Yes		
5.01	Does the pump to	닏	No		
		닏	NA		
			Unknown		
	the assistant with a #4 pop-correctible mesh		Yes		
5.02	Is the pump to waste line equipped with a #4 non-corrodible mesh		No		
	screen?		NA		
			Unknown		
5.03	Does the pump to waste line discharge to a sanitary sewer or storm	님	Yes		
	sewer without proper local authorization?	H	No NA		
		님	Unknown		
20	Is there a means to measure drawdown?	-	Yes		
6	IQ HIGIO O HIGHER IS		No		
à.			NA		
			Unknown		

Que	stion Nur	nber	THE RESERVE OF THE PERSON NAMED IN COURSE OF THE PERSON NAMED IN C	-
	7	is the wellhead properly secured against unauthorized personnel?	Yes No NA Unknown	
Com	rcos / C	Groundwater		
7 O	NC VAL	LLEY WEL - (Active) / Pumps:		
LU.	NG YA	Where does this pumping station pump from and to?	well to system to tank	_
	2			
	2	What type of pump(s) are at this pumping station?	☐ CF · Centrifugal ☐ SC · Screw ☐ HP · Hand Pump ☐ SU - Summersi ☐ JT · Jet ☐ VT · Vertical T ☐ PD · Positive Displacement	
	3	Is the building and equipment protected from flooding?	☐ Yes ☐ No ☑ NA ☐ Unknown	
	4	What is the actual pumping capacity of this well in gallons per minute (GPM)?	0	
			□ v	
	5	Are cross-connections present in the well discharge piping?	☐ Yes ☑ No ☐ NA ☐ Unknown	
	6	Is adequate drainage provided?	Yes No NA Unknown	
	7	Are toxic chemicals, hazardous or flammable materials or lubricants stored inside the pumping station?	Yes No NA Unknows	
			CHRIOWS	
	8	Is the pump discharge line equipped with:		
	8.01	Pump discharge piping: a smooth-nosed sampling tap?	Yes No NA Unknown	
	8.02	Pump discharge piping: a positive-acting check valve between the pump and the isolation valve?	Yes No NA Unknown	
		talest programs occuso?	☐ Yes	
	8.03	Pump discharge piping: pressure gauge?	☑ No	
Potenti:	al Deficienc	y	□ NA □ Unknown	
	8.04	Pump discharge piping: flow meter?	☐ Yes ☑ No	
Potenti	al Deficienc		NA Uuknowa	

8.05	Pump discharge piping: isolation gate valves?	✓ Yes No NA Unknown
9 Potential Deficiency	Where a well pumps directly into a distribution system, is an air release valve or other means of releasing trapped air located on the pump discharge piping?	☐ Yes ☑ No ☐ NA
	partip macron, gr. p.p. mg.	Unknown
9.01	Is the discharge line from the air release valve properly downtumed?	☐ Yes ☐ No ☐ NA ☐ Upknown
9.02	Is the open end of the air release valve screened with #14 mesh corrosion resistant mesh screen?	Yes No NA Unknown
9.03	Is the open end of the air release valve terminated an appropriate air gap (minimum of 6 inches) above the ground or pumphouse floor?	☐ Yes ☐ No ☐ NA ☐ Unknown
10	Are the correct types of lubricant used (ANSI/NSF 60)?	☐ Yes ☐ No ☑ NA ☐ Unknown
	Is rotating and electrical equipment provided with protective guards?	Yes No No Unknown
_	TORAGE FACILITY ST001 - (Active)	5 March 1984
Design:	What is the name of this storage facility?	Long Valley Estates Reservolr
2	What is the total capacity for this storage facility in gallons?	37000
3	Is the area surrounding the ground-level storage structure graded in a manner that will prevent surface water from standing within 50 feet of it?	Yes No NA Unknown
4	Does the storage reservoir have a watertight roof?	Yes No NA Unknown
6	is the storage reservoir cover sloped so that water will drain?	Yes No NA
		└ Unknown

Storage / STORAGE FACILITY ST001 - (Active)

omponents	See a	☑ Yes
	Does the water storage structure have ladders, ladder guards, balcony railings, and safely located entrance hatches provided where applicable?	No NA Unknown
2	Are overflow pipes present?	Yes No NA Unknown
2.01	Overflow pipes: Terminated 12 to 24 inches above the ground?	Yes No NA Unknown
2 02	Overflow pipes: Screened with #4 mesh non-corrodible screen?	Yes No NA Unknown
2.03	Overflow pipes: Directly connected to a storm sewer or sanitary sewer?	☐ Yes ☑ No ☐ NA ☐ Unknown
3	Are air vents present?	Yes No NA Unknown
3.01	Air Vents: Turned downward or covered from rain and dust?	Yes No NA Unknown
3.02	Air Vents: Terminated at a minimum of 24 to 36 Inches above the surface of the storage tank roof?	Yes No NA Unknown
3.03	Air Vents: Screened with #14 non-corrodible mesh screen with a larger guage protection screen (e.g., #4)?	Yes No NA Unknown
4	Are access openings present?	Yes No NA Unknown
4.01	Access opening covers at least 4 inches above the tank roof surface (18 inches above any earthen cover)?	Yes No NA Unknown
4.02	Access openings: Is the lid properly gasketed?	Yes No NA Unknown
4.03	Access openings: Is the access of the shoe box type with a minimum of a 2 inch overlap?	Yes No NA Unknown

Question N	umber	
В	Are outside access hatches locked?	☐ Yes ☑ No
	Notes: x no lock and need to manufacture e bar for the lock.	□ NA □ Unknown
9	Are there any roof penetrations that are not sealed? (ie: a water level indicator cable)	☐ Yes ☑ No ☐ NA
	- 10 ·	Unknown
10	If a drain line is present, is it properly screened with #4 mesh non- corrodible screen?	Yes No
	Notes: x found the drain line with o screen but flushed and repaired during the survey	□ NA □ Unknown
11	If a drain line is present, does it discharge through a physical air gap of at least 2 pipe diameters?	✓ Yes No NA Unknown
Storage /	STORAGE FACILITY ST001 - (Active)	
Maintenar		
1	Are there cracks in the walls or covers of the storage tanks?	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Does the tank exterior show evidence of mild deferioration or spalding? (Answer only once in this section)	Yes No NA Unknown
1.02	Does the tank exterior show evidence of moderate deterioration or spalding? (Answer only once in this section)	Yes No NA Unknown
1.03	Does the tank show evidence of water leakage such as water marks or stains? (Answer only once in this section)	Yes No NA Unknown
1.04	Is the tank leaking? (Answer only once in this section)	Yes No NA Unknown
1.05	Is there evidence of possible water intrusion into the tank through cracks or other openings? (Answer only once in this section)	Yes No NA Unknown
2	Is the storage structure interior coating or liner peeling or cracked?	☐ Yes ✓ No ☐ NA ☐ Unknown
<u>DISTRIB</u>	UTION SYSTEM - (Active) / Design	
1	Do all water mains (installed after 1995) that provide fire flow have a diameter of at least 8 inches? (If no new lines have been added after 1995 answer "yes")	☐ Yes ☐ No ☑ NA
		Unknown

2	Was asbestos/cement pipe used in the system?	-	Yes No	
			NA	
			Unknown	
		\Box	Yes	
2.1	Has an asbestos analysis been done?	Ö	No	
			NA	
			Unknown	
าตาสา	JTION SYSTEM - (Active) / Pressure/Flow			
I MIDA	7,101.			
	Is the PWS capable of providing sufficient water during maximum hourly	V	Yes	
1			No	
	system measured at all points of connections during normal system		NA	
	operation?			
	22		Unknown	
	Was the system constructed or new portions added after January 1,		Yes	
2			No	
	2007.	₹	NA	
			Unknown	
	Drivolica at animana at connection the following		Yes	
2.01	Does the system maintain at all points of connection the following		No	
	pressures: (a) 20 psi during conditions of fire flow and fire demand experienced		NA NA	
	during peak day demand: (b) 30 psi during peak installianeous demand,			
	r (-) vo! during coak day demand.			
	and (c) 40 psi during peak day demand.		37-3	
TDIDI			Unknown lease Valves	
	UTION SYSTEM - (Active) / Air & Vacuum l		lease Valves	
<u>TRIBI</u>		Rel	lease Valves	
	UTION SYSTEM - (Active) / Air & Vacuum l	Rel	Yes No	
	UTION SYSTEM - (Active) / Air & Vacuum] Are all and vacuum release valves used in the system?	Rel	Yes No NA Unknown	
1 ====	UTION SYSTEM - (Active) / Air & Vacuum] Are all and vacuum release valves used in the system?	Rel	Yes No NA Unknown Yes	
	UTION SYSTEM - (Active) / Air & Vacuum l	Rel	Yes No Unknown Yes No	
1 ====	UTION SYSTEM - (Active) / Air & Vacuum] Are all and vacuum release valves used in the system?	Rel	Yes No NA Unknown Yes No NA	
1 ====	UTION SYSTEM - (Active) / Air & Vacuum] Are all and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned?		Yes No NA Unknown Yes No NA Unknown	
1.01	Are all and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown	
1 ====	UTION SYSTEM - (Active) / Air & Vacuum] Are all and vacuum release valves used in the system?		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No	
1.01	Are all and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown	
1.01	Are all and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes	
1.01	Are all and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance		Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?		Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA Unknown Yes No NA	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?		Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump?		Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level?		Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump?		Yes No NA Unknown	
1.01	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump?		Yes No NA Unknown	
1 1.01 1.02 1.03	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump? Does the valve chamber show evidence of flooding?		Yes No NA Unknown	
1 1.01 1.02 1.03	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump?		Yes No NA Unknown	
1 1.01 1.02 1.03	Are alr and vacuum release valves used in the system? Is the vent line properly screened (#14 mesh) and down turned? Does the discharge piping on all air relief valves extend a proper distance above ground and flood level? Does the valve chamber have a drain or adequate sump? Does the valve chamber show evidence of flooding?		Yes No NA Unknown Yes No NA Unknown	

DISTRIBUTION SYSTEM - (Active) / Cross-Connections

1	Does any portion of the distribution system cross under any surface water body?	☐ Yes ☑ No ☐ NA ☐ Unknown
1.01	Were all the following precautions taken? A min, of 2 ft of cover over the pipe; and if the crossing is greater than 15 ft: special construction with restrained joints; valves at each side for pipeline isolation; and permanent taps to allow leakage testing.	Yes No NA
3	Does the water system have a program to control the use of fire hydrants?	Unknown Yes No NA Unknown
4	Are blow offs connected to sanitary or storm sewers or do they exit below flood level in ditches or streams?	Yes No No Introve

DISTRIBUTION SYSTEM - (Active) / Disinfection

Does your water facility disinfection procedures meet the AWWA C-601, 602, 651, 652 Standards for disinfection?

ATTACHMENT C

Annual bacteriological summaries for calendar years 2004, 2005, 2006 and year to date 2007. Sample results indicate positive coliform samples occurred each year.

Annual TCR Summary

For the 12 months beginning 1/1/2007

PWS ID: UTAH13050

Name: LONG VALLEY ESTATES

Legal Contact LONG VALLEY ESTATES

Rating: Not Approved

LYNN OVERTREE

Rating Date: 6/28/06

Address: 610 SAN MIGUEL CAN RD

ROYAL OAKS, CA 95076-9024

Phone Number: 435-224-5059

City Served (Area):

County: KANE COUNTY System Type: Non-community Last Inv Update:

Gat/Min Gal/Day Avg Daily Prod:

Activity Status Cd: Active Population:

25

Last Snty Srv Dt: 6/5/2007 5/1 to 10/31 Oper Period:

2/1/07

0 0 Total Osgn Cap: 0 Total Emerg Cap:

Routine Bacteriological Sampling Requirements

Samples	Requirement	Requirement
Required	Started*	End*
1 / Quarter	7/1/2006	

Total Coliform Sample History

For the twelve months beginning 1/1/2007

	Routine Samples			Repeat Samples			Investi			
	No Samp			No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	Other
Jan	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0
Mar	1	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
Jun	1	0	0	0	O	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0
Sep	1	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0

Annual TCR Summary

For the 12 months beginning 1/1/2006

PWS ID: UTAH13050

Name: LONG VALLEY ESTATES

Legal Contact LONG VALLEY ESTATES

Rating: Not Approved

LYNN OVERTREE

Rating Date: 6/28/06

Address: 610 SAN MIGUEL CAN RD

ROYAL OAKS, CA, 95076-9024

Phone Number: 435-224-5059

City Served (Area):

County: KANE COUNTY

Gal/Day Gal/Min

Activity Status Cd: Active

System Type: Non-community

Last Inv Updale: 2/1/07 6/5/2007 Last Snty Srv Dt:

Avg Daily Prod: Total Dsgn Cap: 0 0

0

Population:

Oper Period:

5/1 to 10/31

Total Emerg Cap:

Routine Bacteriological Sampling Requirements

Samples	Requirement	Requirement
Required	Started*	End*
1 / Quarter	7/1/2006	

Total Coliform Sample History

			For the t	welve month	s begin	ning 1/1/2006	3				
		tine Sam			Repeat Samples			Investigative Samples			
	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos	. Fec Pos.	No Samp	TC Pos	Fec Pos.	Other	
Jan	0	0	0	0	0	0	0	0	0	0	
Feb	0	0	0	0	0	0	0	0	0	0	
Mar	0	0	0	0	0	0	0	0	0	0	
Apr	0	D	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	
Oct	0	0	0	0	0	0	0	0	0	0	
Nov	0	0	D	0	0	0	0	0	0	0	
Dec	 0	0	0	0	0	0	0	0	0	0	

Annual TCR Summary

For the 12 months beginning 1/1/2005

PWS ID: UTAH13050

Name: LONG VALLEY ESTATES

Legal Contact LONG VALLEY ESTATES

Rating: Not Approved

LYNN OVERTREE

Rating Date: 6/28/06

Address: 610 SAN MIGUEL CAN RD

ROYAL OAKS, CA 95076-9024

Phone Number: 435-224-5059

City Served (Area):

County: KANE COUNTY

Gal/Dav

System Type: Non-community

Last Inv Update: 2/1/07 6/5/2007

Avg Daily Prod: Total Dsgn Cap: 0

Activity Status Cd: Active Population:

Last Snty Srv Dt: Oper Period:

5/1 to 10/31

Total Emerg Cap: 0

Routine Bacteriological Sampling Requirements

Samples	Requirement	Requirement
Required	Started*	End*
1 / Quarter	7/1/2006	

Total Coliform Sample History

For the twelve months beginning 1/1/2005

			I OI GIO I	WC110 1110110	ia peâiiii	mig nizuo.	•			
	Aou	ples	Reg	Repeat Samples			Investigative Samples			
	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	No Samp			Other
Jan	0	0	0	0	0	0	0	0	0	0
Feb	0	0	О	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0
Мау	0	0	0	0	٥	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0
Jul	D	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0

Annual TCR Summary

For the 12 months beginning 1/1/2004

PWS ID: UTAH13050

Name: LONG VALLEY ESTATES

Legal Contact LONG VALLEY ESTATES

Rating: Not Approved

LYNN OVERTREE

25

Rating Date: 6/28/06

Address: 610 SAN MIGUEL CAN RD

ROYAL OAKS, CA 95076-9024

Phone Number: 435-224-5059

City Served (Area):

County: KANE COUNTY

Lasl Inv Update:

2/1/07

Avg Daily Prod:

Gal/Day Gal/Min 0

System Type: Non-community

Population:

Activity Status Cd: Active

Last Snty Srv Dt: Oper Period:

6/5/2007 5/1 to 10/31

Total Dsgn Cap: Total Emerg Cap:

0

Routine Bacteriological Sampling Requirements

Samples	Requirement	Requirement
Required	Started*	End*
1 / Quarter	7/1/2006	

Total Coliform Sample History

			For the b	welve month	s beginn	ing 1/1/20 0 4	1				
	Rout	tine Sam	ples	Rep	Repeat Samples			Investigative Samples			
	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	No Samp	TC Pos.	Fec Pos.	Other	
Jan	0	0	0	0	0	0	0	0	0	0`	
Feb	0	0	0	0	0	0	0	0	0	0	
Mar	0	0	0	0	0	0	0	0	0	0	
Арг	0	0	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	О	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	
Oct	0	O	0	Q	0	0	0	0	0	0	
Nov	0	0	0	0	0	0	0	0	0	0	
Dec	O	0	0	0	0	0	0	0	0	0	